

Lockheed Martin Plan Forward

X-LAT Plate Assy and Radiators

Gary Reynolds GLAST Program Manager

Dean Read ATC Thermal Sciences Department Manager

## Current Direction from SLAC

- Do not exceed \$7.5M funding cap
- Focus on efficient completion of flight hardware only through March:
  - Completion of X-LAT Assy fab by March 18
  - Completion of Radiators through Instrumentation installation by March 31
  - Suspension of test preparations and GSE
- Develop plan forward

## Proposed Plan Forward Schedule

ID	0	Task Name	Duration	Starl	January	February	March	April	10ery	June	ղայչ	August	Seplember
1		X-LAT Plate Fab	120 days	10/1/04									
z	-	Receive X-LAT Plate from APEX	86 days	10/1/04		₽ <u>_</u>							
З	-	Bond Heat pipes	10 days	1/31/05		les 1							
+		Bond cooling tube	8 days	2/14/05			L						
5		Inspect, Close-out Paper	16 days	2/24/05			1.						
6		X-LAT Plate Complete	0 days	3/17/05			<b>₹</b> <sup>3</sup>	Ϊ.					
7		X-LAT Thermal Vac test	55 days	2/3/05		-							
8	-	Preparation	40 days	2/3/05				<u>i</u>					
9		Testing	15 days	3/31/05									
10		Deliver X-LAT Plate Assy	0 days	4/20/05				÷**	420				
11 12	_												
13	_	+Y Radiator	41 days	1/20/05									
1+	-	Structure fab complete	28 days	1/20/05			T						
15	31	Pot Spools	5 days	1/20/05									
16		Bond lower Bracket	3 days	2/3/05									
17	_	Mill and inspect	15 days	2/8/05									
18	_	Install Instrumentation	13 days	3/1/05	-		2/	17					
19	_	+Y radiator ready for vibe test	0 days	3/17/05	-		•						
20	_	-Y radiator	41 days	2/2/05	-	<u> </u>		•					
Z1		Structure Fab Complete	28 days	2/2/05	-								
ZZ	33	Bond lower bracket	8 days	2/2/05									
	_	Pot spools	5 days	2/14/05									
Z4	_	Mill and inspect	15 days	2/21/05									
24	_	Install Instrumentation	13 days	3/14/05				3,80					
25	_	-Y Radiator ready for vibe test	0 days	3/30/05				-					
28 Z7		Vibe/Acoustic test	72 days	2/10/05	-								
28		Vibe/Acoustic GSE	50 days	2/10/05	-								
29	31	Vibe/Acoustic/Vibe Test Prep	20 days	3/30/05	-								
30	_	Vibe/Acoustic Test	18 days	4/27/05									
	_	Install MLI/FOSR +/- Y radiators	10 days	5/23/05						7			
31		Radiator Thermal Yac/Thermal Bala	79 days	4/5/05									
32		Radiator T-Vac Prep	30 days	4/5/05									
_		Radiator T-VAC Testing	20 days	6/6/05							<b>₽</b>		
34		T-VAC Write-up	15 days	7/4/05								7 /22	
æ		Deliver Radiators	0 days	7/22/05							•		

## Plan Forward -Financials

- EAC submitted Dec 10 2004
  - Exceeded \$7.5M cap by approx. \$1M
  - Project stop/start will add some costs
  - Costing being reviewed in detail
  - Updated plan complete by TBD (Feb 8)

# Management Oversight

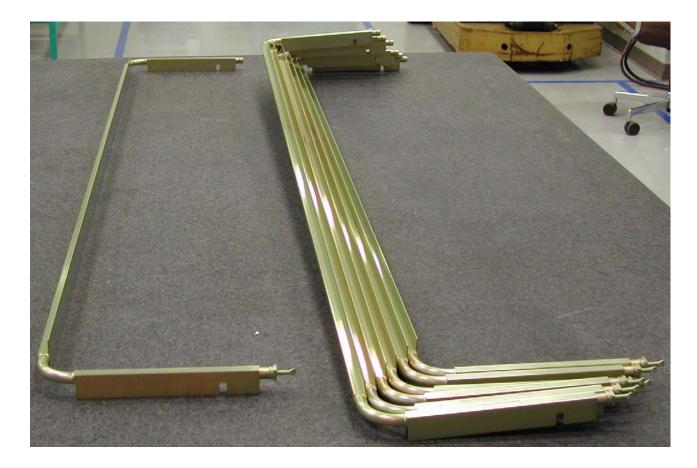
- Weekly Status updates:SLAC/LM
- Weekly Structures Planning
  - Heat Pipe Product Center, Composites Product Center, Machine shop
- Daily tasks/issues meetings in composite fab shop
- End of week planning for next week (new)
  - Composites lead, X-Lat assy lead
- Every other week (on hold since Dec, must be restored)
  - Vibe/Acoustic test meeting-SLAC/LM
  - Thermal Vac test meetings-SLAC/LM
- Monthly management review at SLAC
- LM team conducting internal review to look for scope/cost reductions (new)

## Program Risks/Issues

- Vibe test timing
  - Long range planning somewhat volatile
  - Two distinct options available:B/159, B/156
  - GLAST on the long term schedule for May
- Thermal test timing
  - No problem with X-LAT T-Vac
  - Possible demand for SEARCH chamber in August
- Personnel availability.

# **Progress Pictures**

## X-LAT Heat Pipes

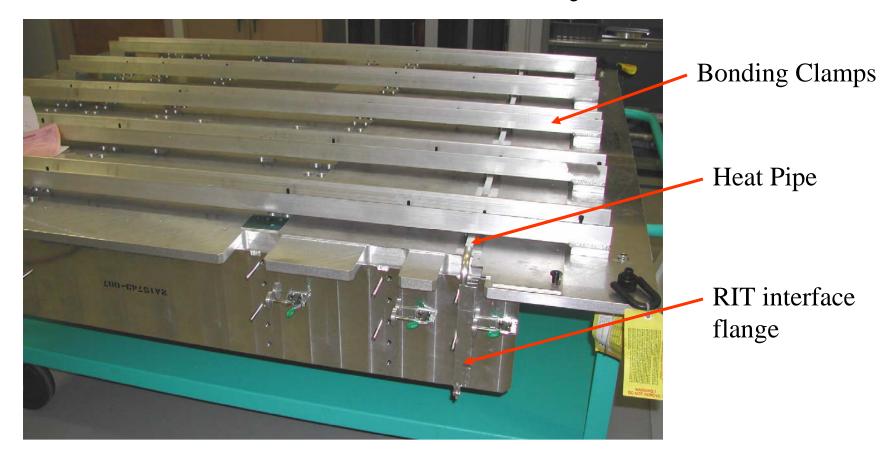


#### X-LAT Plate



#### X-LAT Plate on Lockheed Martin Dock A !!

## X-LAT Assembly Tool



X-LAT assembly tool w/ non-flight heat pipe

### -Y Radiator

EVO RIT -191interface flange (HERE PARKS) ----DHUM Potted 1000 Million inserts WWWWWWWWWWWWWWWWW

Heat pipes

## SEARCH Chamber for Thermal Vac/Thermal Balance Testing



## Summary

- A very well defined task plan forward
- The team has confidence that the plan is executable
- We have enhanced our focus and processes to help the team succeed