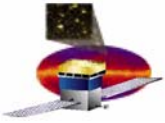


## GLAST LAT System Engineering

### LAT Test Planning Meeting

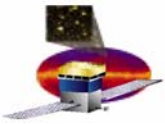
*Rich Baun  
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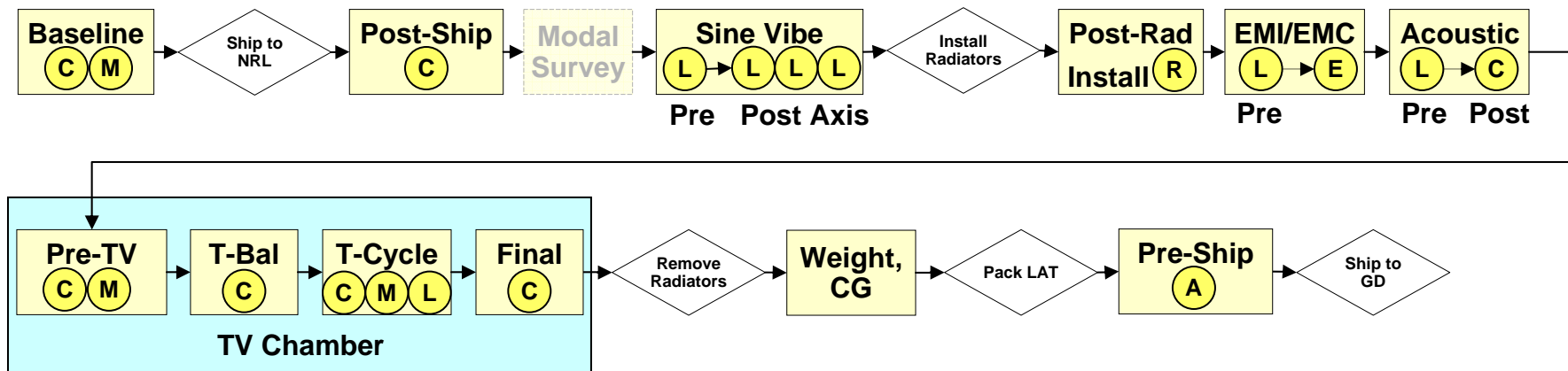
# Agenda

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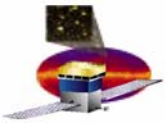
- ❑ LAT Level Test Sequence
- ❑ Redundancy Configurations



# LAT Level Proposed Test Sequence



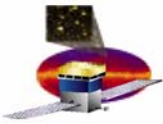
- (A)** Aliveness
- (L)** Limited Performance
- (C)** Comprehensive Performance
- (E)** EMI/EMC Emissions/Susceptibility
- (M)** Muon Survey
- (R)** Post Radiator Installation Test



# LAT Level Redundancy Configurations

Config No.	LAT UNITS ON																		
	SC-P	SC-R	SIU-P Feed	SIU-R Feed	Pri Htr Feed	Red Htr Feed	SIU-P	SIU-R	GASU-P	GASU-R	EPU-P0	EPU-P1	EPU-R	Towers	ACD	+Y HCB	-Y HCB	PDU-P	PDU-R
1	On	-	On	-	On	-	On	-	On	-	On	On	-	On	On	On	On	On	-
2	-	On	-	On	-	On	-	On	-	On	-	On	On	On	On	On	On	-	On
3	-	On	On	-	On	-	On	-	On	-	On	On	-	On	On	On	On	On	-
4	On	-	-	On	On	-	-	On	-	On	On	-	On	On	On	On	On	On	-
5	-	On	-	On	-	On	-	On	On	-	On	-	On	On	On	On	On	-	On
6	On	-	On	-	-	On	On	-	On	-	-	On	On	On	On	On	On	-	On

On	On	= Unit is powered On in the LAT Configuration specified
-	-	= Unit is powered Off in the LAT Configuration specified



# LAT Level Test - Interfaces Verified

Device	INTERFACES VERIFIED												
	SIU-P	SIU-R	GASU-P	GASU-R	EPU-P0	EPU-P1	EPU-R	Towers	ACD	+Y HCB	-Y HCB	PDU-P	PDU-R
SC-P	1,6	4	1,6	4	-	-	-	-	1,4,6	1,4,6	1,4,6	1,4	6
SC-R	3	2,5	5	2,3	-	-	-	-	2,3,5	2,3,5	2,3,5	3	2,5
SIU-P Feed	1,3,6	-	-	-	-	-	-	-	-	-	-	-	-
SIU-R Feed	-	2,4,5	-	-	-	-	-	-	-	-	-	-	-
SIU-P	-	-	1,6	3	-	-	-	-	-	1,3,6	1,3,6	1,3	6
SIU-R	-	-	5	2,4	-	-	-	-	-	2,4,5	2,4,5	4	2,5
GASU-P	-	-	-	-	1,5	1,6	5,6	1,5,6	1,5,6	-	-	1	5,6
GASU-R	-	-	-	-	3,4	2,3	2,4	2,3,4	2,3,4	-	-	3,4	2
EPU-P0	-	-	-	-	-	-	-	-	-	-	-	1,3,4	5
EPU-P1	-	-	-	-	-	-	-	-	-	-	-	1,3	2,6
EPU-R	-	-	-	-	-	-	-	-	-	-	-	4	2,5,6
Towers	-	-	-	-	-	-	-	-	-	-	-	1,3,4	2,5,6
ACD	-	-	-	-	-	-	-	-	-	-	-	1,3,4	2,5,6
Htr-P Feed	-	-	-	-	-	-	-	-	-	1,3,4	1,3,4	-	-
Htr-R Feed	-	-	-	-	-	-	-	-	-	2,5,6	2,5,6	-	-
+Y HCB	-	-	-	-	-	-	-	-	-	-	-	1,3,4	2,5,6
-Y HCB	-	-	-	-	-	-	-	-	-	-	-	1,3,4	2,5,6

1	3	= Interface verified by CPT in LAT Configuration(s) specified
-	-	= No direct electrical interface between specified units or redundant table entry

- Notes:
- 1) SC-P indicates all primary SC-LAT electrical signals, excluding power feeds
  - 2) SC-R indicates all redundant SC-LAT electrical signals, excluding power feeds
  - 3) Analog telemetry measured by the SC is not cross-strapped, therefore some telemetry points may not be available in configs 2-5.