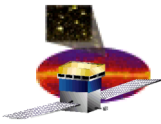


GLAST Large Area Telescope:

TKR Hand-off review for Tower 10

**Hiro Tajima,
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Mutsumi Sugizaki
SU-SLAC**

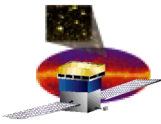
**R. P. Johnson
UCSC**



Power Consumption

- Values for MCM measurements account for the increase due to PS voltage itself, not current increase due to voltage increase.

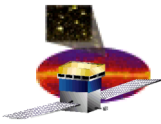
Tower 10	Pisa	SLAC	MCM
Tower total	10.3 W	9.8 W	9.1 W
Tower + TEM/TPS	19.3 W	19.3 W	N/A
Leak current @100V	64 μ A	75 μ A	N/A



Band Channels (Tower 10)

No major change observed. (Hot strips in Y8 was unstable at Pisa, which eventually disappeared.)

Layer	Pre ship (Pisa)				Handoff (SLAC)					Layer
	disconnect	dead	noisy	total	disconnect	dead	noisy	others (offline)	total	
Y17	1	0	2	3	1	0	2	0	3	Y17
X17	0	2	1	3	1	1	1	0	2	X17
X16	0	0	0	0	0	0	0	0	0	X16
Y16	0	0	0	0	0	0	0	0	0	Y16
Y15	2	0	1	3	2	0	1	0	3	Y15
X15	0	0	0	0	0	0	1	0	1	X15
X14	0	0	0	0	1	0	0	0	1	X14
Y14	0	0	0	0	0	0	0	1	1	Y14
Y13	0	5	1	6	0	5	1	0	6	Y13
X13	2	4	3	9	2	4	3	0	9	X13
X12	0	1	1	2	0	1	1	0	2	X12
Y12	1	6	5	12	1	5	5	1	12	Y12
Y11	0	0	0	0	0	0	0	0	0	Y11
X11	0	0	0	0	0	0	0	0	0	X11
X10	0	0	2	2	0	0	3	0	3	X10
Y10	0	1	6	7	0	1	6	0	6	Y10
Y9	0	0	1	1	0	0	2	0	2	Y9
X9	0	0	1	1	0	0	1	0	1	X9
X8	1	1	1	3	1	1	1	0	3	X8
Y8	0	0	35	35	0	0	13	0	13	Y8
Y7	1	0	0	1	1	0	0	0	1	Y7
X7	1	0	2	3	1	0	2	1	4	X7
X6	0	0	0	0	0	0	0	0	0	X6
Y6	0	0	0	0	0	0	0	0	0	Y6
Y5	1	1	0	2	1	1	0	0	2	Y5
X5	0	0	2	2	0	0	2	0	2	X5
X4	0	3	0	3	1	2	0	0	3	X4
Y4	0	0	4	4	0	0	4	1	5	Y4
Y3	0	2	0	2	0	2	0	0	2	Y3
X3	0	0	0	0	0	0	0	1	1	X3
X2	0	2	5	7	0	2	7	0	8	X2
Y2	0	2	3	5	0	2	3	0	5	Y2
Y1	0	0	1	1	0	0	1	0	1	Y1
X1	0	0	1	1	0	0	1	0	1	X1
X0	1	0	2	3	1	0	2	0	3	X0
Y0	0	1	2	3	1	0	2	0	2	Y0
Total	11	31	82	124	15	27	65	5	108	
Fraction	0.02%	0.06%	0.15%	0.22%	0.03%	0.05%	0.12%	0.01%	0.20%	



Hit and Trigger Efficiency

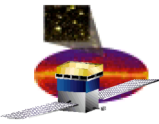
Hit Efficiency

	pre-ship	error	hand-off	error	delta/error
Y0	99.4	0.07	99.4	0.06	-0.2
X0	99.4	0.07	99.4	0.06	0.4
X1	99.8	0.04	99.8	0.03	0.1
Y1	99.9	0.03	99.9	0.03	-0.5
Y2	99.6	0.05	99.7	0.04	1.0
X2	99.8	0.04	99.5	0.05	-2.9
X3	99.6	0.06	99.6	0.05	-0.4
Y3	99.5	0.06	99.5	0.05	0.1
Y4	99.6	0.06	99.5	0.05	-1.0
X4	99.5	0.06	99.6	0.05	0.7
X5	99.8	0.04	99.7	0.04	-0.8
Y5	99.7	0.05	99.7	0.04	0.1
Y6	99.8	0.04	99.8	0.03	0.1
X6	99.7	0.05	99.8	0.03	0.9
X7	99.7	0.05	99.7	0.04	0.4
Y7	99.8	0.04	99.8	0.03	0.3
Y8	99.9	0.03	99.4	0.06	-4.8
X8	99.8	0.04	99.8	0.04	-0.2
X9	99.9	0.03	99.8	0.04	-1.5
Y9	99.9	0.03	99.8	0.03	-0.8
Y10	99.8	0.04	99.7	0.04	-1.4
X10	99.9	0.03	99.8	0.04	-1.2
X11	99.9	0.03	99.9	0.03	-0.5
Y11	99.9	0.03	99.9	0.03	-0.3
Y12	99.4	0.07	99.4	0.06	-0.4
X12	99.8	0.04	99.7	0.04	-0.7
X13	99.5	0.06	99.5	0.05	0.0
Y13	99.6	0.05	99.5	0.05	-1.4
Y14	99.8	0.04	99.7	0.04	-0.6
X14	99.8	0.04	99.8	0.03	-0.1
X15	99.8	0.04	99.9	0.03	0.5
Y15	99.7	0.04	99.8	0.03	1.0
Y16	99.9	0.03	99.9	0.02	-0.1
X16	99.9	0.03	99.9	0.03	-0.5
X17	99.4	0.07	99.4	0.06	0.3
Y17	99.4	0.07	99.4	0.06	-0.5
average	99.70	0.01	99.68	0.01	-1.7

Trigger Efficiency

trigger combination	handoff
C0-1-2	97.7
C1-2-3	97.9
C2-3-4	97.3
C3-4-5	97.5
C4-5-6	98.0
C5-6-7	98.5
C6-7-8	98.3
C7-8-9	98.4
C8-9-10	98.1
C9-10-11	98.6
C10-11-12	98.2
C11-12-13	97.8
C12-13-14	97.5
C13-14-15	98.1
C14-15-16	98.8
C15-16-17	98.1

No major change observed except for inefficiency due to hot strips in Y8.
 (Hot strips in this layer is not stable.)



Notes and Anomalies

- Layer Y8 has unstable hot strips.

