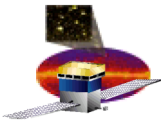


# GLAST Large Area Telescope:

## TKR Hand-off review for Tower 15

**Hiro Tajima,  
Johann Cohen-Tanugi,  
Mutsumi Sugizaki  
SU-SLAC**

**R. P. Johnson  
UCSC**

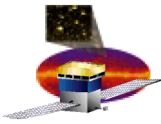


# Power Consumption

---

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

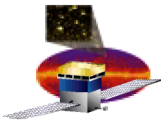
<b>Tower 15</b>	<b>Pisa</b>	<b>SLAC</b>	<b>MCM</b>
<b>Tower total</b>	<b>10.3 W</b>	<b>9.8 W</b>	<b>9.1 W</b>
<b>Tower + TEM/TPS</b>	<b>18.5 W</b>	<b>19.6 W</b>	<b>N/A</b>
<b>Leak current @100V</b>	<b>92.7 <math>\mu</math>A</b>	<b>96.4 <math>\mu</math>A</b>	<b>N/A</b>



# Band Channels (Tower 15)

**No major change observed.**

Layer	Pre ship (Pisa)				Handoff (SLAC)					Layer
	disconnect	dead	noisy	total	disconnect	dead	noisy	others (offline)	total	
Y17	1	9	4	14	0	12	5	0	17	Y17
X17	1			1	1	0	0	0	1	X17
X16				0	0	0	0	0	0	X16
Y16			3	3	1	0	1	0	2	Y16
Y15				0	0	0	0	0	0	Y15
X15				0	0	0	0	0	0	X15
X14				0	0	0	1	0	1	X14
Y14	1	1	1	3	1	1	1	0	3	Y14
Y13				0	1	0	0	0	1	Y13
X13		1	1	2	0	1	1	0	2	X13
X12				0	1	0	1	0	2	X12
Y12	12		1	13	12	0	1	1	14	Y12
Y11				0	0	0	1	0	1	Y11
X11				0	0	0	0	1	1	X11
X10	2	1		3	2	1	0	0	3	X10
Y10				0	0	0	0	0	0	Y10
Y9			1	1	0	0	1	0	1	Y9
X9	1		1	2	1	0	3	0	4	X9
X8	1		1	2	1	0	2	0	3	X8
Y8		2		2	0	2	1	0	3	Y8
Y7		1		1	0	1	0	0	1	Y7
X7		3		3	0	3	0	0	3	X7
X6	1		3	4	1	0	2	0	3	X6
Y6		2	2	4	0	2	2	0	4	Y6
Y5				0	0	0	0	0	0	Y5
X5				0	0	0	0	0	0	X5
X4				0	0	0	0	0	0	X4
Y4			1	1	0	0	1	0	1	Y4
Y3				0	0	0	0	0	0	Y3
X3				0	0	0	0	0	0	X3
X2				0	0	0	0	0	0	X2
Y2				0	0	0	0	0	0	Y2
Y1	4			4	4	0	0	0	4	Y1
X1		4	2	6	1	4	2	0	7	X1
X0	8	3	4	15	7	4	4	1	16	X0
Y0		3	5	8	0	5	6	0	11	Y0
<b>Total</b>	<b>32</b>	<b>30</b>	<b>30</b>	<b>92</b>	<b>34</b>	<b>36</b>	<b>36</b>	<b>3</b>	<b>109</b>	
Fraction	0.06%	0.05%	0.05%	0.17%	0.06%	0.07%	0.07%	0.01%	0.20%	



# Hit and Trigger Efficiency

## Hit Efficiency

	pre-ship	error	hand-off	error	delta/error
Y0	99.3	0.07	99.04	0.08	-2.5
X0	99.2	0.08	98.90	0.08	-2.7
X1	99.7	0.05	99.68	0.04	-0.2
Y1	99.8	0.04	99.76	0.04	-0.4
Y2	99.8	0.04	99.82	0.03	0.2
X2	99.9	0.03	99.81	0.03	-0.9
X3	99.6	0.05	99.62	0.05	0.2
Y3	99.6	0.05	99.53	0.05	-0.7
Y4	99.7	0.05	99.68	0.04	-0.2
X4	99.6	0.05	99.63	0.05	0.3
X5	99.8	0.04	99.76	0.04	-0.4
Y5	99.7	0.05	99.79	0.03	0.9
Y6	99.7	0.05	99.58	0.05	-1.2
X6	99.8	0.04	99.61	0.05	-1.9
X7	99.7	0.05	99.80	0.03	1.0
Y7	99.8	0.04	99.81	0.03	0.1
Y8	99.8	0.04	99.72	0.04	-0.8
X8	99.8	0.04	99.75	0.04	-0.5
X9	99.8	0.04	99.76	0.04	-0.4
Y9	99.9	0.03	99.82	0.03	-0.8
Y10	99.9	0.03	99.86	0.03	-0.4
X10	99.9	0.03	99.82	0.03	-0.8
X11	99.9	0.03	99.81	0.03	-0.9
Y11	99.9	0.03	99.78	0.03	-1.2
Y12	99.6	0.05	99.44	0.05	-1.6
X12	99.9	0.03	99.79	0.03	-1.1
X13	99.8	0.04	99.83	0.03	0.3
Y13	99.9	0.03	99.83	0.03	-0.7
Y14	99.8	0.04	99.69	0.04	-1.1
X14	99.9	0.03	99.80	0.03	-1.0
X15	100	0.00	99.90	0.02	-1.0
Y15	99.9	0.02	99.87	0.02	-0.3
Y16	99.8	0.04	99.85	0.03	0.5
X16	99.9	0.03	99.90	0.02	0.0
X17	99.6	0.05	99.59	0.05	-0.1
Y17	99	0.09	98.98	0.08	-0.2
average	99.74	0.01	99.68	0.01	-4.4

## Trigger Efficiency

trigger combination	handoff
C0-1-2	96.9
C1-2-3	98.1
C2-3-4	98.0
C3-4-5	97.9
C4-5-6	98.0
C5-6-7	98.3
C6-7-8	98.2
C7-8-9	98.6
C8-9-10	98.6
C9-10-11	98.8
C10-11-12	98.3
C11-12-13	98.4
C12-13-14	98.3
C13-14-15	98.8
C14-15-16	98.9
C15-16-17	98.0