Table 3

VERIFICATION TEST MATRIX
GLAST ACD MECHANICAL SUBSYSTEM

	Hardware Description				Structural Mechanical											Thermal	
Item	Level of Assembly	S/N	Unit Type	Supplier	Qualification Status	Modal Survey (low level sine survey)	Static Loads	Sine Burst	Sine Vibration	Random Vibration	Acoustics	Mechanical Function	Performance Testing (Optical)	Mass Properties	No. of Thermal-Vacuum Cyc	Thermal Balance	**Remarks**
ACD Subsystem	S		EM	GSFC	1	X-e		X-e	X-e	X-e	X-e	X		X	**4-c**	**X-c**	With EM electr. and TDA's
ACD Subsystem	S		F	GSFC	2	X-e		X-e	X-e	X-e	X-e	X		X			
Shell	C	1	EM	TBD	2		X-a							X			
Shell	C	2	F	TBD	2		X-a							X			
Tile Shell Assembly	SA		EM	TBD	1				X	X				X			
Tile Shell Assembly	SA		F	TBD	2				X	X				X			
Tile Detector Assembly	C		EM	TBD	2								X-d	X			20 assemblies
Tile Detector Assembly	C		F	TBD	3								X-d	X			105 flight + 30 spare
PMT/Fiber Connector	C		F	TBD	3								X-d	X			
WSF/Clear Fiber Connector	C		F	TBD	3								X-d	X			
Base Frame	C	1	EM	GSFC	1		X							X			
Base Frame	C	2	F	GSFC	3		X							X			
Base Electronics Assembly	SA		EM	GSFC	2	**X-e-c**	**X-e-c**	**X-e-c**	**X-e-c**	**X-e-c**				X			Qualification Level
Base Electronics Assembly	SA		F	GSFC	2									X			
Shield & Thermal Blanket	C		EM	JSC	2									X			Similarity to dev. model
Shield & Thermal Blanket	C		F	JSC	3									X			Similarity to dev. model

LEGEND:

LEVEL OF ASSEMBLY
- S - Subsystem
- SA - Subassembly
- C - Component

UNIT TYPE
- EM - Engineering Model
- F - Flight

QUALIFICATION STATUS
- 1 - Complete qual req
- 2 - Partial qual req (see remarks)
- 3 - Otherwise qual (see remarks)

NOTES:
a. Composite structure, see Sec.4.3
b. Test-to-failure
c. May be tested at next higher ass'y
d. Test for light yield and repeatability
e. Test with mass models