LAT PROJECT DOCUMENT CHANGE NOTICE (DCN)

ORIGINATOR: Dave Tarkington
PHONE: 650-926-3791
DATE: 9/9/05

CHANGE TITLE: DCN for Revised Miscellaneous Flight Drawings

DOCUMENT NUMBER | TITLE | NEW REV.
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LAT-DS-01611 | GLAST DAQ Electronics GASU Assembly | 59
LAT-DS-01669 | GLAST Electronics Boxes Circuit Card Assy EPU/SIU Power Supply | 56
LAT-DS-01674 | GLAST Electronics Boxes DAQ Electronics SIU SIB Circuit Card Assy | 56
LAT-DS-01679 | GLAST Electronics Boxes DAQ Electronics LCB Circuit Card Assy | 56
LAT-DS-01696 | GLAST Electronics Boxes PDU Assembly | 61

CHANGE DESCRIPTION (FROM/TO):

LAT-DS-01718-57 – GLAST Electronics Boxes Circuit Card Assy GASU
LAT-DS-01723-60 – GLAST Electronics Boxes Circuit Card Assy GASU Power Supply
LAT-DS-02964-56 – GLAST-Electronics Boxes Assy, Backplane & Connector Plate EPU/SIU Chassis

For changes please see LAT-XR-07286-01

REASON FOR CHANGE:

ACTION TAKEN: ☑ Change(s) included in new release  ☐ DCN attached to document(s), changes to be included in next revision  ☐ Other (specify):

DISPOSITION OF HARDWARE (IDENTIFY SERIAL NUMBERS):

☒ No hardware affected (record change only) ☐ No hardware affected, no scrap, all units to conform to these revisions.
☐ List S/Ns which comply already:
☒ List S/Ns to be reworked or scrapped: LAT-DS-01696-61 only affected. S/N GLAT 1898 rework to print
☐ List S/Ns to be built with this change:
☐ List S/Ns to be retested per this change:

☐ ☐ ☐

SAFETY, COST, SCHEDULE, REQUIREMENTS IMPACT? ☐ YES ☑ NO
If yes, CCB approval is required. Enter change request number:

APPROVALS | DATE | OTHER APPROVALS (specify): | DATE
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ORIGINATOR: D. Tarkington (Signature on file) | 9/9/05 | SE- P. Hascall (Signature on file) | 9/13/05
ORG. MANAGER: G. Haller (Signature on file) | 9/9/05 |
PSA- J. Cullinan (Signature on file) | 9/12/05 |
Manufacturing- R. Patterson (Signature on file) | 9/14/05 |
Elec.- D. Nelson (Signature on file) | 9/12/05 |
DCC RELEASE: Natalie Cramar | 9/13/05 | Doc. Control Level: ☑ Subsystem ☐ LAT IPO ☐ GLAST Project

DCN No: LAT-XR-07285-01
ADHESIVE, THERMAL, NUSIL_CV-2946
DC6-1104
AR
QTY
ADHESIVE, RTV, DC6-1104
1
R693
30 AWG WIRE-WHITE
AR
U112
DWN
BOM, GASU CCA
M81822/6-A-30-9
R595
LAT-DS-01719
AR
LAT-DS-05535
PWB, GASU
SH
R665
R699
U44
NAS1352N02-8

DESCRIPTION
REV
51 REVISE DUE TO PWB/PART CHG DPT AO DN 10/04
53 REV NOTE 3,6,ADD NOTE 5,10,DET. CDPT AO DN 04/05
54 CHG DETAIL C, ADD DETAIL D DPT AO DN 04/05
U98-U103,U112,U167,U168,
CHG DETAIL C.
SCALE: NONE

BETWEEN COMPONENT AND PWB, ITEM 1. BOND LINE

SN 63 SOLDER, ITEM 5.
INSTALL JUMPER WIRE, ITEM 11, BETWEEN U48.15 AND U87.43, U35.43 AS SHOWN. STAKE WIRES USING ITEM 12.

APPLY SERIAL LABEL, ITEM 10, APPROXIMATELY WHERE SHOWN.
CONFORMAL COAT BOTH SIDES OF BOARD IN ACCORDANCE WITH LAT-PS-03031 USING ITEM 3, MASK BOARD HOLES 0.3 IN DIA AROUND HOLE TOP SIDE ONLY, MASK ALL CONNECTORS AND AREAS SHOWN. COATING ON WIRE INSULATION OPTIONAL.
CUT TRACES BETWEEN PAD AND VIA ON U87.43 AND U83.43.
INSTALL JUMPER WIRE, ITEM 11, BETWEEN U48.15 AND U87.43, U83.43 AS SHOWN. STAKE WIRES USING ITEM 12.

FOR USE IN ELECTRONIC DEVICES MANUFACTURED OR MANUFACTURED FOR THE STANFORD UNIVERSITY by STANFORD LINEAR ACCELERATOR CENTER.
GRANTED SPECIFIC PERMISSION OF STANFORD UNIVERSITY.

APPLY THERMALLY CONDUCTIVE ADHESIVE, ITEM 4, BETWEEN COMPONENT AND PWB, ITEM 1. BOND LINE SHALL BE 0.010" MAXIMUM THICKNESS.
ASSEMBLE IN ACCORDANCE WITH LAT-PS-03081 USING SN 63 SOLDER, ITEM 5.
STAKE COMPONENT USING ITEM 2 AFTER PASSING QC INSPECTION OF SMT SOLDERED COMPONENTS. EPOXY COVERING SMT COMPONENTS PERMISSIBLE, BUT SHOULD BE MINIMIZED.
INSTALL SCREW, WASHER AND NUT, ITEMS 6,7,8, APPLY TIGHTENING TORQUE OF 30 IN-LBS (26-33) OVER RUNNING TORQUE. STAKE NUT AND SCREW HEAD, USING ITEM 2.
APPLY SERIAL LABEL, ITEM 10, APPROXIMATELY WHERE SHOWN.

DIMENSIONS ARE IN INCHES.
TOLERANCES:
(45.0) +/-2.0 DEGREES
INTERNAL CORNERS R.015 MAX
FRACTIONS
± .5°

GLAST ELECTRONICS BOXES
CIRCUIT CARD ASSY
GASU

LAT-DS-01718
57 D

LAT-DS-01611
NEXT ASSEMBLY
U67

0.250
200
150
2
F21, F23
LEADS FORMED TO (45.0) +/−0.5 DEGREES PRIOR TO INSTALLATION. PART LEANS TOWARD NEAR EDGE OF BOARD.
FUSE LEAD FORMING AND STAKING DETAIL C.

DETAIL D

PAD IDENTIFICATION

DETAIL D

DETAIL C

DETAIL A

DETAIL B

DETAIL B 2X3

TOP VIEW

F21, F23
LEADS FORMED TO (45.0) +/−0.5 DEGREES PRIOR TO INSTALLATION. PART LEANS TOWARD NEAR EDGE OF BOARD.
FUSE LEAD FORMING AND STAKING DETAIL C.

DETAIL C 2X3
DIMENSIONING AND TOLERANCING IS IN CAD FILE NAME:

TOLERANCES:
- BREAK EDGES .005-.015

PROPRIETARY DATA OF STANFORD UNIVERSITY AND/OR U. S. DEPARTMENT OF
GRANTED SPECIFIC PERMISSION OF STANFORD UNIVERSITY.

DATE
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.005--- 63
XXX
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NEXT ASSEMBLY:

GLAST GASU CCA

SLAC FORMAT V2.0