



CRANE
 AEROSPACE &
 ELECTRONICS
 Electronics Group

General Technology Corporation

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 505.345.5591 fax 505.343.7653

FAX Transmission

To: DARREN MARSH From: PAT LUJAN
 Fax: 650-926-4979 Pages: 4 TOTAL
 Phone: _____ Date: 11.1.04
 Re: NCMR 2037 cc: BRIGITE ESTEY

- Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

ATTACHED IS NCMR WITH REWORK TRAVELER.
 PLEASE ADVISE WHETHER YOU WOULD LIKE
 TO SEE ~~A~~ ACTUAL SIGNATURES
 OR E-MAIL'S STATING APPROVAL.

Pat

GENERAL TECHNOLOGY CORPORATION

NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2037	CUSTOMER RETURN
DATE	10/11/2004	RMA NUMBER
CUSTOMER	SLAC	QUANTITY RETURNED
CUSTOMER	PAT LUJAN	VENDOR DEFECT
VENDOR	General Technology	QUANTITY REJECTED
PART NUMBER	LAT-DS-01646	3
LOT QUANTITY	3	PRODUCTION
SALES ORDER	F17200	QUANTITY REJECTED
PURCHASE ORDER	48799	REWORK
LOT NUMBER		QUANTITY
WORK ORDER	110154,110155,110156	PURCHASING DEFECT
INITIATOR	P. LUJAN	PURCHASING QUANTITY REJECTED
ASSIGNED TO	PAT LUJAN	3
DATE REQUIRED	10/11/2004	
ASSIGNED TO		
DISCREPANCY	SN's "1, 2 and 3" (Currently not identified as with SLAC numbers)	

- 1.) U62, fine pitch leads are bent out of compliance for coplanarity.
- 2.) U45, fine pitch leads are bent out of compliance for coplanarity.
- 3.) U3, U4, U5, U6, U54, U55, U56, U57, U58, U59, U60 and U61 the lead form of the part is causing a greater than .010 gap between the bottom of the lead foot to the bottom of the component case. The foot to case dimension varies from .012 -.014 on three parts that were checked. The drawing requires a .010 maximum bond line thickness.

Detailed information on FPGAs:

Of the six furnished devices, one of each part exhibits no lead skew or co-planarity deficiencies necessitating correction. One other of each part exhibits minor (less than 6) skewed lead and co-planarity locations, and the final pair exhibit slightly more (less than 10, more than 6) skewed lead and co-planarity locations. The lead skew is such that a lead is moved off the designed center point of the device pitch, but not so far as to contact the next adjacent lead. The lead non-co-planarity is such that some leads are lower, or higher, than the majority of the leads on each side, by typically a lead thickness. Adjustments up and down are necessary to moderate the overall co-planarity of the lead array. In no instance are leads observed to be damaged.

NOTES

1. Customer Furnished Material
2. Further review and drawing clarification foot to body dimension is within tolerance. No further approvals are required.
3. Approval Signatures on file.

CAUSE CAUSE

Items 1 and 2: Customer furnished material; Parts were received in this condition.
Unable to determine where damage occurred.

GENERAL TECHNOLOGY CORPORATION

NONCONFORMANCE MATERIAL/RMA REPORT

CORRECTIVE ACTION

Items 1 and 2: Rework per instructions provided on rework traveler. (GTC-009)

Item 3: Out of tolerance condition of ASIC's requires bond line of .015. Drawing LAT-DS-01646 to be changed to eliminate requirement of Thermally Conductive Adhesive under the ASIC's. Detail B to include statement requiring 50- 75 % coverage of component body. A USE AS IS disposition is recommended for the out of tolerance foot to case dimension on the ASIC's

FINAL DISPOSITION

GET CUSTOMER APPROVAL

Q/A APPROVAL

Pat Lujan

Q/A APPROVAL

11/1/2004

COST OF QUALITY

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2037	CUSTOMER RETURN	<input type="checkbox"/>
DATE	10/11/2004	RMA NUMBER	
CUSTOMER	SLAC	QUANTITY RETURNED	
CUSTOMER CONTACT	PAT LUJAN	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	General Technology Corp	QUANTITY REJECTED	3
PART NUMBER	LAT-DS-01646	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	3	QUANTITY REJECTED	
SALES ORDER	F17200	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	48799	QUANTITY REWORKED	
LOT NUMBER		PURCHASING DEFECT	<input checked="" type="checkbox"/>
WORK ORDER	110154,110155,110156	PURCHASING QUANTITY REJECTED	3
INITIATOR	P. LUJAN		
ASSIGNED TO	PAT LUJAN		
DATE REQUIRED	10/11/2004		
ASSIGNED TO SIGNATURE			

DISCREPANCY

SN's "1, 2 and 3" (Currently not identified as with SLAC numbers)

- 1.) U62, fine pitch leads are bent out of compliance for coplanarity.
- 2.) U45, fine pitch leads are bent out of compliance for coplanarity.
- 3.) U3, U4, U6, U8, U54, U55, U56, U57, U58, U60, U80 and U61 the lead form of the part is causing a greater than .010 gap between the bottom of the lead foot to the bottom of the component case. The foot to case dimension varies from .012 - .014 on three parts that were checked. The drawing requires a .010 maximum bond line thickness.

Detailed information on FPGAs:
Of the six furnished devices, one of each part exhibits no lead skew or co-planarity deficiencies necessitating correction. One other of each part exhibits minor (less than 6) skewed lead and co-planarity locations, and the final pair exhibit slightly more (less than 10, more than 6) skewed lead and co-planarity locations. The lead skew is such that a lead is moved off the designed center point of the device pitch, but not so far as to contact the next adjacent lead. The lead non-co-planarity is such that some leads are lower, or higher, than the majority of the leads on each side, by typically a lead thickness. Adjustments up and down are necessary to moderate the overall co-planarity of the lead array. In no instance are leads observed to be damaged.

NOTES

Customer Furnished Material

CAUSE

Items 1 and 2: Customer furnished material. Parts were received in this condition. Unable to determine where damage occurred.
Item 3: As received.

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

CORRECTIVE ACTION

Items 1 and 2: Rework per instructions provided on rework traveler. (GTC-009) Item 3: Out of tolerance condition of ASIC's requires bond line of .015. Drawing LAT-DS-01646 to be changed to eliminate requirement of Thermally Conductive Adhesive under the ASIC's. Detail B to include statement requiring 80- 75 % coverage of component body. A USE AS IS disposition is recommended for the out of tolerance foot to case dimension on the ASIC's
--

FINAL DISPOSITION

GET CUSTOMER APPROVAL

Q/A APPROVAL

[]

Q/A APPROVAL DATE


[]

COST OF QUALITY


[]

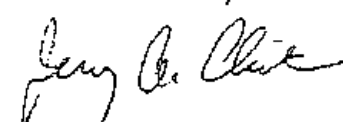
~~APPROVED~~
APPROVED : (SLAC)

LAT QUALITY ASSURANCE MANAGER

DARREN MARSH  11/1/04

GUNTHER HALLER
DAC SUBSYSTEM MANAGER

 11-1-04

JERRY CLINTON  11/1/04
LAT MANUFACTURING
ENGINEER

REWORK TRAVELER

SO NO: 17200	PART NO: FPGA Components (LAT-DS-03884 & 03895; 3 OF EA)	REV: N/A
ASSEMBLY NAME: (Used on LAT-DS-01646; U45 - LAT-DS-03895; U62 - LAT-DS-03884)		QTY: 8 parts

APPROVAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
PREPARED BY	DATE	ENG MGR	DATE	PROD MGR	DATE	QA MGR
	11-04		11-04		11/04	

STEP	OPERATION	Operator Sign Off.	Date	Time spent
	<p>REF. NCMR 2037; P/Ps "1, 2 and 3" (Currently not identified as with BLAC numbers)</p> <p>1) U62, fine pitch leads are bent out of compliance for coplanarity.</p> <p>2) U45, fine pitch leads are bent out of compliance for coplanarity.</p> <p>3) U3, U4, U5, U6, U54, U55, U56, U57, U58, U59, U60 and U61 the lead form of the part is causing a greater than .010 gap between the bottom of the lead foot to the bottom of the component case. The foot to case dimension varies from .012-.014 on three parts that were checked. The drawing requires a .010 maximum bond line thickness.</p> <p>CORRECTIVE ACTION: Items 1 and 2: Rework per instructions provided on rework traveler. (GTC-009).</p> <p>Some leads of Customer Furnished components are bent, skewed, out of pitch and coplanarity. Straighten leads to as close an optimal condition, as possible -- no dimensional constraints required except alignment with PWB pads for indicated device installation location.</p>			
1	Record S/Ns of FPGAs: _____			
2	Straighten leads of devices using component tweezers, under microscope.			
3	Operator inspection (associate in SMT area).			
4	CEI/NCMR closeout.			



GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2078	CUSTOMER RETURN
DATE	11/11/2004	RMA NUMBER
CUSTOMER	SLAC	QUANTITY RETURNED
CUSTOMER	Pat Lujan	VENDOR DEFECT
VENDOR	General Technology	QUANTITY REJECTED
PART NUMBER	LAT-DS-02388	PRODUCTION
LOT QUANTITY	3	QUANTITY REJECTED
SALES ORDER	F17300	REWORK
PURCHASE ORDER	48800	QUANTITY
LOT NUMBER		PURCHASING DEFECT
WORK ORDER	110393,110394,110432	PURCHASING QUANTITY REJECTED
INITIATOR	Pat Lujan	
ASSIGNED TO	Pat Lujan	
DATE REQUIRED	11/11/2004	
ASSIGNED TO	Pat Lujan	
DISCREPANCY	PWA- LAT-DS-02388: Shottky Diode PN SSR1040GTXV Item 19 of BOM LAT-DS0391-55 The component referenced exhibits solder contacting the component body. SN 1 D-1 SN 2 D-3, D-4, D-8, D-19 SN 3 D-3, D8	
NOTES	Further investigation revealed that Vendor Supplied parts were tinned and also had evidence of solder on part body. This condition was found to be acceptable per MIL-PRF-19500.	
CAUSE	Parts were initially rejected post SMT and reflow for inadequate heel fillet. During the rework process solder came in contact with the component body.	
CAUSE		
CORRECTIVE ACTION	This has been determined to be a Process Indicator Condition and not a Defect. This will be monitored by on-site source inspector for abnormal variation in future run.	
FINAL DISPOSITION	NO DEFECT	
Q/A APPROVAL	Pat Lujan E-Mails on File	
Q/A APPROVAL	11/12/2004	

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: NCMR 2078
Attachments:

Sent: Fri 11/12/2004 11:51 AM

Approved.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Friday, November 12, 2004 9:32 AM
To: Haller, Gunther; Neison, David J.; Marsh, Darren S.
Cc: Estey, Brigitte
Subject: NCMR 2078

Attached is NCMR for your approvals.

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2081	CUSTOMER RETURN
DATE	11/12/2004	RMA NUMBER
CUSTOMER	SLAC	QUANTITY RETURNED
CUSTOMER	Pat Lujan	VENDOR DEFECT
VENDOR	General Technology	QUANTITY REJECTED
PART NUMBER	LAT-DS-01646	PRODUCTION
LOT QUANTITY	1	QUANTITY REJECTED
SALES ORDER	F17200	REWORK
PURCHASE ORDER	48799	QUANTITY
LOT NUMBER		PURCHASING DEFECT
WORK ORDER	110154	PURCHASING QUANTITY REJECTED
INITIATOR	Pat Lujan	
ASSIGNED TO	GTC	
DATE REQUIRED	11/15/2004	
ASSIGNED TO		
DISCREPANCY	SN 1: PWA dropped from an approximate distance of 36". PWB sustained damage (dings) along edges of board. Photographs will be e-mailed and are a part of this NCMR.	

NOTES Re-inspection at 10X power did not reveal any fractured solder joints; however, the following defects were detected:
R418 - Non-soldered connection
Interim Disposition: OK to proceed to Step 14-ICT, then submit test results to QA for review. (If results are acceptable work will be allowed to proceed to step 21-Func. Test before a Final Disposition is made).

CAUSE Improper handling.

CORRECTIVE ACTION

FINAL DISPOSITION GET CUSTOMER APPROVAL

Q/A APPROVAL

Q/A APPROVAL

COST OF QUALITY

Lujan, Patricio C

From: Haller, Gunther **Sent:** Sat 11/13/2004 3:26 PM
To: Lujan, Patricio C; Estey, Brigitte; Marsh, Darren S.; Nelson, David J.; Sapozhnikov, Leonid
Cc: Haller, Gunther
Subject: RE: NCMR's 2081, 2082, 2083
Attachments:

This is what we need to do:

- leave all 3 NCR's open until we can do the functional testing, which can only be done after loading is complete
- proceed with the original plan and continue finishing assembly of the modules.
- there is some risk on using some additional flight components, but the risk is acceptable.

So continue assembly on Monday morning.

I think Darren needs to concur.

- what we will do while the assembly is proceeding
 - investigate what can be done to "repair" the dings at a later stage
 - investigate the risk on potential shorts between planes and how it can be mitigated
 - investigate whether a impedance test can be done to establish whether there are already shorts. Instructions need to be written up to perform such a test (using a multi-meter)

Thanks for your help.

Regards
Gunther

From: Lujan, Patricio C
Sent: Sat 11/13/2004 10:54 AM
To: Estey, Brigitte; Haller, Gunther; Marsh, Darren S.; Nelson, David J.
Subject: NCMR's 2081, 2082, 2083

The following defects were discovered inspecting at 10X power. One part was mounted upside down, and two parts had unsoldered connections. Of the two unsoldered connections one was tombstoned and the other was insufficient solder. No fractured solder joints or additional PWB damage was discovered. I would like some input on possibly repairing the more serious dings on the PWB. This could be accomplished at a later date.

CCA #1-611;

R418. Non-soldered connection.

CCA #2-614; No defects detected

CCA #3-612;

R664. Part mounted upside down.

R44. Non-soldered connection.

Gary Hefkin and Vishwa Goundar from GTC were instrumental in providing the necessary support to accomplish this task.

Lujan, Patricio C

From: Marsh, Darren S. **Sent:** Mon 11/15/2004 4:23 PM
To: Lujan, Patricio C
Cc:
Subject: RE: NCMR's 2081, 2082, 2083
Attachments:

Will GTC start working a corrective action?

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Monday, November 15, 2004 2:00 PM
To: Marsh, Darren S.; Estey, Brigitte; Haller, Gunther; Nelson, David J.
Subject: NCMR's 2081, 2082, 2083

These are the NCMR's with a interim disposition.

Pat



General Technology Corporation
A Crane Co. Company



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GTC-0505-MKM

Date: 1-21-05

Pat Lujan
SLAC Field Office
1450 Mission Ave. NE
Albuquerque, NM 87107

Subject: P/N LAT-DS-01646 (S/N's 1, 2, 3)

Reference: NCMR's 2081, 2082 & 2083

Finding: Customer finding - SN 1, 2 & 3
PWA dropped from an approximate distance of 36". PWB sustained damage (dings) along edges of board. Photographs were e-mailed to SLAC for evaluation.

Immediate Correction(s): Evaluate the condition of the board edges, re-inspect at 10X magnification 100% for any and all damage possibly caused to components themselves; no other damage found. Reference GTC rework traveler attached for PWB edge repair.

Root Cause: The operator that was transferring the CCAs to the dry room, to be stored over the weekend, made a bad decision and chose an inappropriate material handling method. This person used a flat tray with slots (to be used for PWBs only) with the CCAs in an ESD bag and laying on top of the tray. The ESD bags created a slippery exterior thus allowing the CCAs to slip off and fall to the floor.



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Root Cause Preventive Action:

Immediately, engineering, quality and the work cell members convened to make everyone aware of this improper handling method and require no such further handling of that sort. A new rack, with large flat trays, are now in place which will not allow the CCAs to fall off and are enclosed within the rack safely. When necessary, each tray will be pulled out to get the CCA to be worked on. The tray is then to be slid back in. to the rack. **Effective 11-12-04.**

I apologize for any inconvenience this may have caused SLAC, but I am confident our root cause preventive action will prevent recurrences of this nature.

Respectfully,

A handwritten signature in black ink, appearing to read 'Michael Mora', written over a horizontal line.

Michael Mora
Quality Assurance Manager
Ph: 505-345-5591 x3018
Fax: 505-345-0788e-mail:
mora@gt-corp.com

REWORK TRAVELER

SO NO: F17200	PART NO: LAT-DS-01646	REV: 54
ASSEMBLY NAME: CCA, TEM		QTY: 2

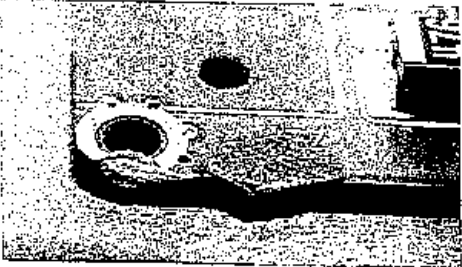
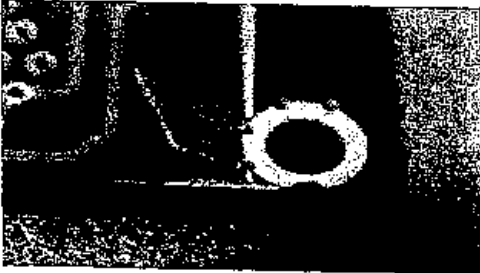

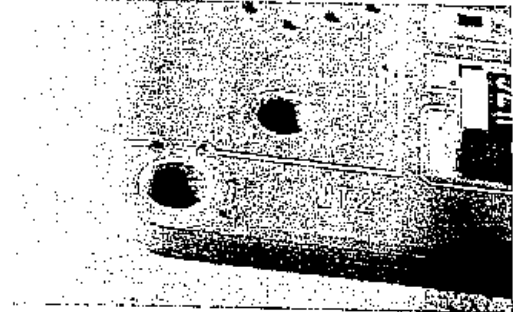
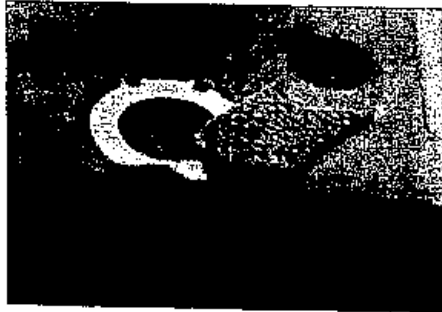

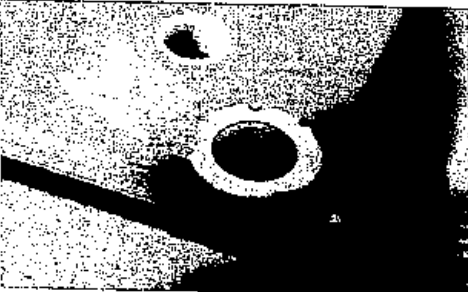
APPROVAL							
HEFKIN		P. LUJAN		HANRAHAN		MORA	
PREPARED BY	DATE	CSI	DATE	PROD	DATE	QA	DATE

STEP	OPERATION	Operator Sign Off.	Date	Time spent
1	<p><i>THIS REWORK TRAVELER APPLIES COATING MATERIAL TO LOCATIONS ON CORNERS OF CCAS DAMAGED BY FALLING OFF A STORAGE TRAY. REWORK AUTHORIZED VIA EMAIL FROM B. ESTEY, DATED 12/12/04; 4:21 pm. (ATTACHED)</i></p> <p>Serial numbers: #2 (614), #3 (612) REFERENCE NCMR # 2082 AND # 2083.</p>			
2	<p>TOOLS AND MATERIALS:</p> <p>MIXING CONTAINER - PLASTIC, METAL, OR GLASS</p> <p>MIXING UTENSIL - PLASTIC, METAL, OR GLASS</p> <p>SCALE - GRAM, CALIBRATED</p> <p>PLIERS - METAL, NEEDLE, SMOOTH JAW SURFACE</p>			
3	<p>MIX A SMALL AMOUNT OF THE TWO PARTS OF COATING MATERIAL, ARATHANE 5750, FOR BRUSH APPLICATION TO DAMAGED LOCATIONS ON EACH CCA. REFER TO PICTURES ON FOLLOWING PAGE. USE THE FOLLOWING RATIO TO MIX THE MATERIAL:</p> <p>PART A 18 PARTS BY WEIGHT EXAMPLE: (0.54 GRAMS)</p> <p>PART B 100 PARTS BY WEIGHT (3.00 GRAMS)</p> <p>MIX SLOWLY, BY HAND, TO MINIMIZE AIR ENTRAPMENT.</p> <p>POT LIFE IS APPROXIMATELY TWO (2) HOURS).</p> <p>LET MIXED MATERIAL STAND FOR HALF AN HOUR TO RELEASE ANY ENTRAPPED AIR.</p> <p>RECORD MIXTURE AMOUNTS, MATERIAL LOT/BATCH CODE, AND EXPIRATION DATE, BELOW:</p> <p>AMOUNTS MIXED: PART A: _____ PART B: _____</p> <p>CODE: _____ EXPIRATION DATE: _____</p>			



REWORK TRAVELER

SO NO: F17200	PART NO: LAT-DS-01646	REV: 54
ASSEMBLY NAME: CCA, TEM		QTY: 2

STEP	OPERATION	Operator Sign Off.	Date	Time spent
	<p><i>THIS REWORK TRAVELER APPLIES COATING MATERIAL TO LOCATIONS ON CORNERS OF CCAS DAMAGED BY FALLING OFF A STORAGE TRAY. REWORK AUTHORIZED VIA EMAIL FROM B. ESTEY, DATED 12/12/04; 4:21 pm (ATTACHED)</i></p>			
REF	<p>PICTURES OF DAMAGE TO SN #2 (614)...</p> <div style="display: flex; flex-wrap: wrap;">   </div> <div style="display: flex; flex-wrap: wrap; margin-top: 10px;">  </div> <p>NOTE DEFORMED CORNER PADS.</p>			
REF cont.	<p>PICTURES OF DAMAGE TO SN #3 (612)...</p> <div style="display: flex; flex-wrap: wrap;">   </div> <div style="display: flex; flex-wrap: wrap; margin-top: 10px;">   </div> <p>NOTE DEFORMED CORNER PADS.</p>			

REWORK TRAVELER

SO NO: F17200	PART NO: LAT-DS-01646	REV: 54
ASSEMBLY NAME: CCA, TEM		QTY: 2


STEP	OPERATION	Operator Sign Off.	Date	Time spent
	<i>THIS REWORK TRAVELER APPLIES COATING MATERIAL TO LOCATIONS ON CORNERS OF CCAS DAMAGED BY FALLING OFF A STORAGE TRAY. REWORK AUTHORIZED VIA EMAIL FROM B. ESTEY, DATED 12/12/04, 4:21 pm (ATTACHED)</i>			
4	WHEN DEFORMED PAD IS EVIDENT, CAREFULLY PRESS IT BACK DOWN INTO NORMAL POSITION. USE PLIERS FOR MOVING THE PAD METAL. USE A BRUSH TO APPLY A SMALL AMOUNT OF COATING TO NOTED DAMAGED LOCATIONS. COVER EXPOSED FIBERS, AND ADJACENT AREAS UP TO 1/2" AWAY FROM DAMAGED SURFACES ALLOW COATING TO AIR-DRY, OBSERVING FOR DRIPS, FOR HALF AN HOUR. REMOVE EXCESS DRIP COATING DURING THIS TIME.			
5	CURE COATING DURING BAKE CYCLE PERFORMED FOR CURING STAKING MATERIALS. RECORD CURE DATE, TEMPERATURE, AND VSTART/STOP TIMES BELOW: DATE: _____ TEMP: _____ START: _____ STOP: _____			
6	INSPECTION			
7	CSI			

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2089"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="11/17/2004"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text"/>
CUSTOMER CONTACT	<input type="text" value="David Tarkington"/>	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	<input type="text" value="SLAC"/>	QUANTITY REJECTED	<input type="text"/>
PART NUMBER	<input type="text" value="MAX724ECK"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="200"/>	QUANTITY REJECTED	<input type="text"/>
SALES ORDER	<input type="text" value="F17300"/>	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	<input type="text" value="48800"/>	QUANTITY REWORKED	<input type="text"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text" value="110393, 110394, 110432"/>	PURCHASING QUANTITY REJECTED	<input type="text"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="SLAC"/>		
DATE REQUIRED	<input type="text" value="11/19/2004"/>		
ASSIGNED TO SIGNATURE	<input type="text" value="David Tarkington"/>		
DISCREPANCY	<input type="text" value="Parts are not formed properly; unable to assemble. Ref. LAT-DS-02388 U6-U8, U10, U15, U17, U18 See photo."/>		
NOTES	<input type="text" value="Repaired per instructions from David Tarkington."/>		
CAUSE	<input type="text" value="As supplied by SLAC"/>		
CORRECTIVE ACTION	<input type="text" value="Revise drawing to clarify use of these components."/>		
FINAL DISPOSITION	<input type="text" value="REPAIR"/>		
Q/A APPROVAL	<input type="text" value="Pat Lujan (E-Mails on file)"/>		
Q/A APPROVAL DATE	<input type="text" value="11/20/2004"/>		
COST OF QUALITY	<input type="text"/>		

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2100"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="11/24/2004"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text"/>
CUSTOMER CONTACT	<input type="text"/>	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	<input type="text"/>	QUANTITY REJECTED	<input type="text"/>
PART NUMBER	<input type="text" value="LAT-DS-02338"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="3"/>	QUANTITY REJECTED	<input type="text"/>
SALES ORDER	<input type="text" value="F17300"/>	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	<input type="text" value="48800"/>	QUANTITY REWORKED	<input type="text"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text" value="110393, 110394, 110432"/>	PURCHASING QUANTITY REJECTED	<input type="text"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="David Tarkington"/>		
DATE REQUIRED	<input type="text" value="11/29/2004"/>		
ASSIGNED TO SIGNATURE	<input type="text"/>		
DISCREPANCY	<input type="text" value="Mounting thru holes for F/N 36 (MAX724ECK) 7 places is .124 dia. Should be approximately .156. Diameter should provide clearance for 6-32 cap screw (major dia. = .138)"/>		
NOTES	<input type="text"/>		
CAUSE	<input type="text" value="Design Error"/>		
CORRECTIVE ACTION	<input type="text"/>		
FINAL DISPOSITION	<input type="text" value="GET CUSTOMER APPROVAL"/>		
Q/A APPROVAL	<input type="text" value="Pat Lujan (e-mails on file)"/>		
Q/A APPROVAL DATE	<input type="text" value="11/28/2004"/>		
COST OF QUALITY	<input type="text"/>		

 This message was sent with high importance.

Lujan, Patricio C

From: Marsh, Darren S. **Sent:** Sun 11/28/2004 12:59 PM
To: Estey, Brigitte; Lujan, Patricio C; Tarkington, David; Nelson, David J.; Haller, Gunther
Cc: Liew, Y.C.; Patterson, Russell
Subject: RE: NCMR2100
Attachments:

Approved.

Darren

From: Estey, Brigitte
Sent: Fri 11/26/2004 11:14 AM
To: Lujan, Patricio C; Tarkington, David; Marsh, Darren S.; Nelson, David J.; Haller, Gunther
Cc: Liew, Y.C.; Patterson, Russell
Subject: RE: NCMR2100

Pat,

You can use Dave T.'s attachment as disposition for NCMR2089 and NCMR2100. I believe all the information is there for GTC to proceed. Please review. Gunther/Dave N., and Darren. Please provide your concurrence to this disposition as provided by Dave T. for NCMRs 2089 and 2100.

Thanks,
Brigitte

From: Lujan, Patricio C
Sent: Wed 11/24/2004 3:12 PM
To: Tarkington, David; Estey, Brigitte; Marsh, Darren S.; Nelson, David J.; Haller, Gunther
Cc: Liew, Y.C.; Patterson, Russell
Subject: RE: NCMR2100

I wrote 2 NCMR's one for the IC (NCMR2089) and one for the PWA (NCMR2100).

Pat

From: Tarkington, David
Sent: Wed 11/24/2004 3:18 PM
To: Lujan, Patricio C; Estey, Brigitte; Marsh, Darren S.; Nelson, David J.; Haller, Gunther
Cc: Liew, Y.C.; Patterson, Russell
Subject: RE: NCMR2100

Pat,
Part affected is 02388 (typo on the NCMR).
See attached for lead trimming and hardware change details.
Dave T.

From: Lujan, Patricio C
Sent: Wednesday, November 24, 2004 1:55 PM
To: Estey, Brigitte; Tarkington, David; Marsh, Darren S.; Nelson, David J.; Haller, Gunther
Subject: NCMR2100

Lujan, Patricio C

From: Haller, Gunther **Sent:** Thu 1/20/2005 9:34 AM
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: NCMR2100
Attachments:

approved

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Thursday, January 20, 2005 7:44 AM
To: Haller, Gunther; Marsh, Darren S.
Cc: Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: FW: NCMR2100
Importance: High

Gunther/Darren,

I do not have an e-mail from you approving these NCMR's. Please send me an e-mail approving these.

Thank you,

Pat

GENERAL TECHNOLOGY CORPORATION

NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2113"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="12/6/2004"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text"/>
CUSTOMER CONTACT	<input type="text" value="Pat Lujan"/>	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	<input type="text"/>	QUANTITY REJECTED	<input type="text"/>
PART NUMBER	<input type="text" value="LAT-DS-02588"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="3"/>	QUANTITY REJECTED	<input type="text"/>
SALES ORDER	<input type="text"/>	REWORK REQUIRED	<input checked="" type="checkbox"/>
PURCHASE ORDER	<input type="text"/>	QUANTITY REWORKED	<input type="text" value="3"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text"/>	PURCHASING QUANTITY REJECTED	<input type="text"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="David Tarkington"/>		
DATE REQUIRED	<input type="text" value="12/7/2004"/>		
ASSIGNED TO SIGNATURE	<input type="text"/>		
DISCREPANCY	Wire length on drawing is 1.50 inches. This dimension is oversize based on the location of the pads where the wire will be lap soldered.		
NOTES			
CAUSE	Drawing Error		
CORRECTIVE ACTION	Revise drawing based on information obtained from GTC. GTC manufacturing engineering will provide wire length dimensions.		
FINAL DISPOSITION	<input type="text" value="REWORK"/>		
Q/A APPROVAL	<input type="text" value="Pat Lujan (e-mails on file)"/>		
Q/A APPROVAL DATE	<input type="text" value="12/6/2004"/>		
COST OF QUALITY	<input type="text"/>		

Lujan, Patricio C

From: Marsh, Darren S. **Sent:** Mon 12/6/2004 5:27 PM
To: Lujan, Patricio C; Haller, Gunther
Cc: Sapozhnikov, Leonid; Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: Cable Assembly
Attachments:

Approved.

D. Tarkington, please ensure the drawing gets updated once you receive the required information.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Monday, December 06, 2004 4:26 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Sapozhnikov, Leonid; Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: Cable Assembly

Gunther/Darren

Wires have been tinned, stripped and cut to the 1.50 dimension. GTC must now repeat that process for each wire. If the intent was to cut to length at assembly; that should have been so noted on the drawing. This is a

separate drawing and the possibility for it to be manufactured by someone other than the PWA assembler necessitates more detail. Please review and reply stating you approve the disposition of NCMR 2113.

Regards,

Pat

From: Haller, Gunther
Sent: Mon 12/6/2004 4:46 PM
To: Lujan, Patricio C; Tarkington, David; Estey, Brigitte; Nelson, David J.
Cc: Marsh, Darren S.
Subject: RE: Cable Assembly

Just to make sure, we specify the length so one can trim the wires to the appropriate length. So the wires should always be longer of equal length than required, not shorter.

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309


T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Monday, December 06, 2004 3:05 PM
To: Tarkington, David; Estey, Brigitte; Nelson, David J.
Cc: Marsh, Darren S.; Haller, Gunther
Subject: Cable Assembly

LAT-DS-02588 calls out a 1.50 inch wire length. This dimension is too long and we probably need 4 different lengths based on the location on the board. There are 4 rows of pads where the wires are lap soldered.

Pat

 You forwarded this message on 1/19/2005 8:59 AM.

Lujan, Patricio C

From: Haller, Gunther **Sent:** Mon 12/6/2004 5:28 PM
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Sapozhnikov, Leonid; Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: Cable Assembly
Attachments:

Approved.

So you are going ahead in cutting the wires to the appropriate length and letting us know what lengths you prefer?

Gunther

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Monday, December 06, 2004 4:26 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Sapozhnikov, Leonid; Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: Cable Assembly

Gunther/Darren

Wires have been tinned, stripped and cut to the 1.50 dimension. GTC must now repeat that process for each wire. If the intent was to cut to length at assembly, that should have been so noted on the drawing. This is a separate drawing and the possibility for it to be manufactured by someone other than the PWA assembler

necessitates more detail. Please review and reply stating you approve the disposition of NCMR 2113.

Regards,

Pat

From: Haller, Gunther
Sent: Mon 12/6/2004 4:46 PM
To: Lujan, Patricio C; Tarkington, David; Estey, Brigitte; Nelson, David J.
Cc: Marsh, Darren S.
Subject: RE: Cable Assembly

Just to make sure, we specify the length so one can trim the wires to the appropriate length. So the wires should always be longer of equal length than required, not shorter.

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Monday, December 06, 2004 3:05 PM
To: Tarkington, David; Estey, Brigitte; Nelson, David J.
Cc: Marsh, Darren S.; Haller, Gunther
Subject: Cable Assembly

LAT-DS-02588 calls out a 1.50 inch wire length. This dimension is too long and we probably need 4 different lengths based on the location on the board. There are 4 rows of pads where the wires are lap soldered.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: Time Sheet
Attachments:

Sent: Tue 12/7/2004 3:51 PM

Thanks for asking.

I am delegating my MRB approval authority to you during my absence.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, December 07, 2004 2:42 PM
To: Marsh, Darren S.
Subject: RE: Time Sheet

Will you designate someone for MRB approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2118	CUSTOMER RETURN	<input type="checkbox"/>
DATE	12/7/2004	RMA NUMBER	
CUSTOMER	SLAC	QUANTITY RETURNED	
CUSTOMER CONTACT		VENDOR DEFECT	<input type="checkbox"/>
VENDOR	General Technology Corp	QUANTITY REJECTED	
PART NUMBER	LAT-DS-02338	PRODUCTION DEFECT	<input checked="" type="checkbox"/>
LOT QUANTITY	3	QUANTITY REJECTED	3
SALES ORDER	F17300	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	48800	QUANTITY REWORKED	
LOT NUMBER		PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	110393, 110394, 110432	PURCHASING QUANTITY REJECTED	
INITIATOR			
ASSIGNED TO	Gary Hefkin		
DATE REQUIRED	12/8/2004		
ASSIGNED TO SIGNATURE			
DISCREPANCY	Damaged insulation/exposed wire.		
NOTES	Reference NCMR 2089 Part of the repair process is to encapsulate the jumper wires.		
CAUSE	During preparation of 1/2" long jumper wire; (cut, strip and tin) insulation was damaged exposing wire.		
CORRECTIVE ACTION	On the following 19 units all wire will be inspected for this condition prior to solder.		
FINAL DISPOSITION	USE AS IS		
Q/A APPROVAL	Pat Lujan (e-mails on file)		
Q/A APPROVAL DATE	12/8/2004		
COST OF QUALITY			

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<i>NCMR NUMBER</i>	2118	<i>CUSTOMER RETURN</i>
<i>DATE</i>	12/7/2004	<i>RMA NUMBER</i>
<i>CUSTOMER</i>	SLAC	<i>QUANTITY RETURNED</i>
<i>CUSTOMER</i>		<i>VENDOR DEFECT</i>
<i>VENDOR</i>	General Technology	<i>QUANTITY REJECTED</i>
<i>PART NUMBER</i>	LAT-DS-02338	<i>PRODUCTION</i>
<i>LOT QUANTITY</i>	3	<i>QUANTITY REJECTED</i>
<i>SALES ORDER</i>	F17300	<i>REWORK</i>
<i>PURCHASE ORDER</i>	48800	<i>QUANTITY</i>
<i>LOT NUMBER</i>		<i>PURCHASING DEFECT</i>
<i>WORK ORDER</i>	110393, 110394, 110432	<i>PURCHASING QUANTITY REJECTED</i>
<i>INITIATOR</i>		
<i>ASSIGNED TO</i>	Gary Hefkin	
<i>DATE REQUIRED</i>	12/8/2004	
<i>ASSIGNED TO</i>		
<i>DISCREPANCY</i>	Damaged Insulation/exposed wire.	
 <i>NOTES</i>	 Reference NCMR 2089 Part of the repair process is to encapsulate the jumper wires.	
<i>CAUSE</i>	During preparation of 1/2" long jumper wire; (cut, strip and tin) insulation was	
<i>CAUSE</i>	damaged exposing wire.	
 <i>CORRECTIVE ACTION</i>	 On the following 19 units all wire will be inspected for this condition prior to solder.	
 <i>FINAL DISPOSITION</i>	 USE AS IS	
<i>Q/A APPROVAL</i>		
<i>Q/A APPROVAL</i>		
<i>COST OF QUALITY</i>		

You forwarded this message on 12/8/2004 10:15 AM.

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Estey, Brigitte
Subject: RE: NCMR2116

Sent: Wed 12/8/2004 10:13 AM

Attachments:

approved

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Wednesday, December 08, 2004 9:10 AM
To: Haller, Gunther; Marsh, Darren S.
Cc: Estey, Brigitte
Subject: NCMR2116

Please review and approve the attached NCMR.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C; Haller, Gunther
Cc: Estey, Brigitte
Subject: RE: NCMR2116
Attachments:

Sent: Wed 12/8/2004 10:17 AM

Approved.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Wednesday, December 08, 2004 9:10 AM
To: Haller, Gunther; Marsh, Darren S.
Cc: Estey, Brigitte
Subject: NCMR2116

Please review and approve the attached NCMR.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2121"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="12/15/2004"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text"/>
CUSTOMER CONTACT	<input type="text" value="Dave Tarkington"/>	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	<input type="text" value="SLAC"/>	QUANTITY REJECTED	<input type="text"/>
PART NUMBER	<input type="text" value="LAT-DS-01646"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="3"/>	QUANTITY REJECTED	<input type="text"/>
SALES ORDER	<input type="text" value="F17200"/>	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	<input type="text" value="48799"/>	QUANTITY REWORKED	<input type="text"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text" value="110154, 110155, 110156"/>	PURCHASING QUANTITY REJECTED	<input type="checkbox"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="Dave Tarkington"/>		
DATE REQUIRED	<input type="text" value="12/15/2004"/>		
ASSIGNED TO SIGNATURE	<input type="text"/>		
DISCREPANCY	Item 8 on drawing IS: MS24671-2 (.375 length) Should be: .25 length. Scew is bottoming out; unable to assemble.		
NOTES			
CAUSE	Drawing Error		
CORRECTIVE ACTION	Change drawing to correct part number MS24671-1.		
FINAL DISPOSITION	REWORK		
Q/A APPROVAL	Pat Lujan (e-mail on file)		
Q/A APPROVAL DATE	12/15/2004		
COST OF QUALITY			

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C
Cc: Estey, Brigitte; Nelson, David J.; Ludvik, Jeffrey; Marsh, Darren S.; Sapozhnikov, Leonid
Subject: RE: NCMR2121
Attachments:

Sent: Wed 12/15/2004 5:39 PM

approved

From: Lujan, Patricio C
Sent: Wednesday, December 15, 2004 3:57 PM
To: Haller, Gunther
Cc: Estey, Brigitte; Nelson, David J.; Ludvik, Jeffrey; Marsh, Darren S.; Sapozhnikov, Leonid
Subject: NCMR2121

Gunther,

Please review and approve the attached NCMR2121. I will approve in Darren's absence.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: Time Sheet
Attachments:

Sent: Tue 12/7/2004 3:51 PM

Thanks for asking.

I am delegating my MRB approval authority to you during my absence.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, December 07, 2004 2:42 PM
To: Marsh, Darren S.
Subject: RE: Time Sheet

Will you designate someone for MRB approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<p>NCMR NUMBER <input type="text" value="2127"/></p> <p>DATE <input type="text" value="12/16/2004"/></p> <p>CUSTOMER <input type="text" value="SLAC"/></p> <p>CUSTOMER CONTACT <input type="text" value="David Nelson/Jeffrey Lud"/></p> <p>VENDOR <input type="text"/></p> <p>PART NUMBER <input type="text" value="LAT-DS-02388"/></p> <p>LOT QUANTITY <input type="text" value="3"/></p> <p>SALES ORDER <input type="text" value="F17300"/></p> <p>PURCHASE ORDER <input type="text" value="48800"/></p> <p>LOT NUMBER <input type="text"/></p> <p>WORK ORDER <input type="text" value="110393, 110394, 110432"/></p> <p>INITIATOR <input type="text" value="Pat Lujan"/></p> <p>ASSIGNED TO <input type="text" value="David Nelson"/></p> <p>DATE REQUIRED <input type="text" value="12/16/2004"/></p> <p>ASSIGNED TO SIGNATURE <input type="text" value="Dave Nelson"/></p> <p>DISCREPANCY <input type="text" value="Test Failure"/></p> <p>NOTES <input type="text"/></p> <p>CAUSE <input type="text" value="Test Failure"/></p> <p>CORRECTIVE ACTION <input type="text" value="Per David Nelson:
Remove R231 and replace with F/N 62 (15K) M55342K06B15E0R"/></p> <p>FINAL DISPOSITION <input type="text" value="REWORK"/></p> <p>Q/A APPROVAL <input type="text" value="Pat Lujan (e-mails on file)"/></p> <p>Q/A APPROVAL DATE <input type="text" value="12/16/2004"/></p> <p>COST OF QUALITY <input type="text"/></p>	<p>CUSTOMER RETURN <input type="checkbox"/></p> <p>RMA NUMBER <input type="text"/></p> <p>QUANTITY RETURNED <input type="text"/></p> <p>VENDOR DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text"/></p> <p>PRODUCTION DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text"/></p> <p>REWORK REQUIRED <input type="checkbox"/></p> <p>QUANTITY REWORKED <input type="text"/></p> <p>PURCHASING DEFECT <input type="checkbox"/></p> <p>PURCHASING QUANTITY REJECTED <input type="checkbox"/></p>
--	--

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C
Cc:
Subject: RE: NCMR2127
Attachments:

Sent: Mon 12/20/2004 9:35 PM

approved

From: Lujan, Patricio C
Sent: Mon 12/20/2004 7:54 PM
To: Haller, Gunther
Subject: FW: NCMR2127

Gunther,

Attached is NCMR2127 for your approval.

From: Haller, Gunther
Sent: Thu 12/16/2004 9:30 PM
To: Lujan, Patricio C
Cc: Sapozhnikov, Leonid; Ludvik, Jeffrey; Nelson, David J.; Marsh, Darren S.; Estey, Brigitte
Subject: RE: NCMR2127

I don't understand this. Does this mean Lupe has to order more resistors/
If so, Lupe please do asap

From: Lujan, Patricio C
Sent: Thu 12/16/2004 11:44 AM
To: Haller, Gunther
Cc: Sapozhnikov, Leonid; Ludvik, Jeffrey; Nelson, David J.; Marsh, Darren S.; Estey, Brigitte
Subject: NCMR2127

Gunther,

Attached is NCMR2127 for your approval.

Brigitte,

This is going to impact inventory.

Pat

Lujan, Patricio C

From: Marsh, Darren S.

To: Lujan, Patricio C

Cc:

Subject: RE: Time Sheet

Attachments:

Sent: Tue 12/7/2004 3:51 PM

Thanks for asking.

I am delegating my MRB approval authority to you during my absence.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C

Sent: Tuesday, December 07, 2004 2:42 PM

To: Marsh, Darren S.


Subject: RE: Time Sheet

Will you designate someone for MRB approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<p>NCMR NUMBER <input type="text" value="2129"/></p> <p>DATE <input type="text" value="12/18/2004"/></p> <p>CUSTOMER <input type="text" value="SLAC"/></p> <p>CUSTOMER CONTACT <input type="text" value="Pat Lujan"/></p> <p>VENDOR <input type="text" value="General Technology Corp"/></p> <p>PART NUMBER <input type="text" value="LAT-DS-02388"/></p> <p>LOT QUANTITY <input type="text" value="3"/></p> <p>SALES ORDER <input type="text" value="F17300"/></p> <p>PURCHASE ORDER <input type="text" value="48800"/></p> <p>LOT NUMBER <input type="text" value=""/></p> <p>WORK ORDER <input type="text" value="110393, 110394, 110432"/></p> <p>INITIATOR <input type="text" value="Pat Lujan"/></p> <p>ASSIGNED TO <input type="text" value="Hefkin"/></p> <p>DATE REQUIRED <input type="text" value="12/20/2004"/></p> <p>ASSIGNED TO SIGNATURE <input type="text" value="Hefkin"/></p>	<p>CUSTOMER RETURN <input type="checkbox"/></p> <p>RMA NUMBER <input type="text" value=""/></p> <p>QUANTITY RETURNED <input type="text" value=""/></p> <p>VENDOR DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text" value=""/></p> <p>PRODUCTION DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text" value=""/></p> <p>REWORK REQUIRED <input type="checkbox"/></p> <p>QUANTITY REWORKED <input type="text" value=""/></p> <p>PURCHASING DEFECT <input type="checkbox"/></p> <p>PURCHASING QUANTITY REJECTED <input type="text" value=""/></p>
DISCREPANCY	<p>IS: Wires from J1 connector dressed to lay on adjacent components.</p> <p>SB: No wires dressed to contact adjacent components.</p>
NOTES	<p>Disposition is USE AS IS with supplemental work instructions to detail potting instructions that ensure wires are not resting on adjacent components.</p>
CAUSE	<p>Wires are lap soldered to termination pads on PWA without a heel fillet. This process does not allow for proper wire dressing.</p>
CORRECTIVE ACTION	<p>Immediate corrective action for SN's 1, 2 and 3 is per attached supplemental instructions.</p> <p>SN's 4 thru 22 work instructions will be updated to include detail to prep wire to allow a heel fillet to dress wires in a manner that will not contact adjacent components.</p>
FINAL DISPOSITION	<input type="text" value="USE AS IS"/>
Q/A APPROVAL	<input type="text" value="Pat Lujan (e-mails on file)"/>
Q/A APPROVAL DATE	<input type="text" value="12/18/2004"/>
COST OF QUALITY	<input type="text" value=""/>

 You forwarded this message on 12/18/2004 5:04 PM.

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.; Shepherd, Tracy L
Cc: Estey, Brigitte; Tarkington, David
Subject: RE: NCMR2129
Attachments:

Sent: Sat 12/18/2004 4:49 PM

approve

From: Lujan, Patricio C
Sent: Sat 12/18/2004 12:10 PM
To: Haller, Gunther; Marsh, Darren S.; Shepherd, Tracy L
Cc: Estey, Brigitte; Tarkington, David
Subject: NCMR2129

Tracy,

Attached is the NCMR generated based on your observation.

Gunther,

For your review and approval.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: Time Sheet
Attachments:

Sent: Tue 12/7/2004 3:51 PM

Thanks for asking.

I am delegating my MRB approval authority to you during my absence.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, December 07, 2004 2:42 PM
To: Marsh, Darren S.
Subject: RE: Time Sheet

Will you designate someone for MRB approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2133	CUSTOMER RETURN	<input type="checkbox"/>
DATE	12/22/2004	RMA NUMBER	
CUSTOMER	SLAC	QUANTITY RETURNED	
CUSTOMER CONTACT	Pat Lujan	VENDOR DEFECT	<input type="checkbox"/>
VENDOR		QUANTITY REJECTED	
PART NUMBER	LAT-DS-01646	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	3	QUANTITY REJECTED	
SALES ORDER	F17200	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	48799	QUANTITY REWORKED	
LOT NUMBER		PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	110154, 110155, 110156	PURCHASING QUANTITY REJECTED	
INITIATOR	Pat Lujan		
ASSIGNED TO	Gunther Haller		
DATE REQUIRED	12/27/2004		
ASSIGNED TO SIGNATURE			
DISCREPANCY	During thermal cycling board temp. reaches -37 C. Should be -40 C.		
NOTES	Above referenced cause is an excerpt from e-mail from Leonid.		
CAUSE	Gunther, we placed TEM in thermal chamber and started test. They set delta T to 3C, so when it target -40 it go to -37 on top of FPGA (chamber is going to almost -50C)		
CORRECTIVE ACTION	The corrective action for subsequent assemblies is to decrease the temperature to reach -40C.		
FINAL DISPOSITION	USE AS IS		
Q/A APPROVAL	Pat Lujan (e-mails on file)		
Q/A APPROVAL DATE	12/22/2004		
COST OF QUALITY			

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<p>NCMR NUMBER <input style="width: 50px;" type="text" value="2134"/></p> <p>DATE <input style="width: 50px;" type="text" value="12/22/2004"/></p> <p>CUSTOMER <input style="width: 100px;" type="text" value="SLAC"/></p> <p>CUSTOMER CONTACT <input style="width: 100px;" type="text" value="Pat Lujan"/></p> <p>VENDOR <input style="width: 100px;" type="text"/></p> <p>PART NUMBER <input style="width: 100px;" type="text" value="LAT-DS-02388"/></p> <p>LOT QUANTITY <input style="width: 50px;" type="text" value="3"/></p> <p>SALES ORDER <input style="width: 100px;" type="text" value="F17300"/></p> <p>PURCHASE ORDER <input style="width: 100px;" type="text" value="48800"/></p> <p>LOT NUMBER <input style="width: 150px;" type="text"/></p> <p>WORK ORDER <input style="width: 150px;" type="text" value="110393, 110394, 110432"/></p> <p>INITIATOR <input style="width: 100px;" type="text" value="Pat Lujan"/></p> <p>ASSIGNED TO <input style="width: 100px;" type="text" value="Gunther Haller"/></p> <p>DATE REQUIRED <input style="width: 50px;" type="text" value="12/27/2004"/></p> <p>ASSIGNED TO SIGNATURE <input style="width: 150px;" type="text"/></p> <p>DISCREPANCY <input style="width: 550px; height: 40px;" type="text" value="During thermal cycling board temp. reaches -37 C. Should be -40 C."/></p> <p>NOTES <input style="width: 550px; height: 40px;" type="text"/></p> <p>CAUSE <input style="width: 500px; height: 40px;" type="text"/></p> <p>CORRECTIVE ACTION <input style="width: 500px; height: 40px;" type="text" value="The corrective action for subsequent assemblies is to decrease the temperature to reach -40C."/></p> <p>FINAL DISPOSITION <input style="width: 150px;" type="text" value="USE AS IS"/></p> <p>Q/A APPROVAL <input style="width: 150px;" type="text" value="Pat Lujan (e-mails on file)"/></p> <p>Q/A APPROVAL DATE <input style="width: 50px;" type="text" value="12/22/2004"/></p> <p>COST OF QUALITY <input style="width: 100px;" type="text"/></p>	<p>CUSTOMER RETURN <input type="checkbox"/></p> <p>RMA NUMBER <input style="width: 50px;" type="text"/></p> <p>QUANTITY RETURNED <input style="width: 50px;" type="text"/></p> <p>VENDOR DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input style="width: 50px;" type="text"/></p> <p>PRODUCTION DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input style="width: 50px;" type="text"/></p> <p>REWORK REQUIRED <input type="checkbox"/></p> <p>QUANTITY REWORKED <input style="width: 50px;" type="text"/></p> <p>PURCHASING DEFECT <input type="checkbox"/></p> <p>PURCHASING QUANTITY REJECTED <input style="width: 30px;" type="text"/></p>
--	--

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C
Cc: Estey, Brigitte; Marsh, Darren S.; Sapozhnikov, Leonid; Ludvik, Jeffrey; Tarkington, David; Nelson, David J.
Subject: RE: NCMR's and Thermal Cycling
Attachments:

Sent: Wed 12/22/2004 7:02 PM

- a) we need to see that future boards go to -40C
- b) we accept these 3 boards to -37C.

gunther

From: Lujan, Patricio C
Sent: Wed 12/22/2004 5:09 PM
To: Haller, Gunther
Cc: Estey, Brigitte; Marsh, Darren S.; Sapozhnikov, Leonid; Ludvik, Jeffrey; Tarkington, David; Nelson, David J.
Subject: NCMR's and Thermal Cycling

Gunther,

I need a disposition and corrective action on these NCMR's.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: Time Sheet
Attachments:

Sent: Tue 12/7/2004 3:51 PM

Thanks for asking.

I am delegating my MRB approval authority to you during my absence.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, December 07, 2004 2:42 PM
To: Marsh, Darren S.
Subject: RE: Time Sheet

Will you designate someone for MRB approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2135"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="12/29/2004"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text"/>
CUSTOMER CONTACT	<input type="text" value="Pat Lujan"/>	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	<input type="text"/>	QUANTITY REJECTED	<input type="text"/>
PART NUMBER	<input type="text" value="LAT-DS-02388"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="3"/>	QUANTITY REJECTED	<input type="text"/>
SALES ORDER	<input type="text" value="F17300"/>	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	<input type="text" value="48800"/>	QUANTITY REWORKED	<input type="text"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text"/>	PURCHASING QUANTITY REJECTED	<input type="checkbox"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="Dave Tarkington"/>		
DATE REQUIRED	<input type="text" value="1/10/2005"/>		
ASSIGNED TO SIGNATURE	<input type="text"/>		
DISCREPANCY	<input type="text" value="The SOW calls out for a buyer provided bar code label for the CCAs (with SLAC tracking number), to be applied subsequent to conformal coat. There is no mention of this part/material on the CCA dwg."/>		
NOTES	<input type="text"/>		
CAUSE	<input type="text" value="Label not provided."/>		
CORRECTIVE ACTION	<input type="text" value="Immediate C/A. Mark boards using CAT-LINK ENTHONE #50-100R, WHITE with Serial Numbers provided by SLAC. SLAC Design Engineering to evaluate and change drawing accordingly."/>		
FINAL DISPOSITION	<input type="text" value="REWORK"/>		
Q/A APPROVAL	<input type="text" value="Pat Lujan (e-mails on file)"/>		
Q/A APPROVAL DATE	<input type="text" value="12/29/2004"/>		
COST OF QUALITY	<input type="text"/>		

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2136	CUSTOMER RETURN	<input type="checkbox"/>
DATE	12/29/2004	RMA NUMBER	
CUSTOMER	SLAC	QUANTITY RETURNED	
CUSTOMER CONTACT	Pat Lujan	VENDOR DEFECT	<input type="checkbox"/>
VENDOR		QUANTITY REJECTED	
PART NUMBER	LAT-DS-01646	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	3	QUANTITY REJECTED	
SALES ORDER	F17200	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	48799	QUANTITY REWORKED	
LOT NUMBER		PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER		PURCHASING QUANTITY REJECTED	
INITIATOR	Pat Lujan		
ASSIGNED TO	Dave Tarkington		
DATE REQUIRED	1/10/2005		
ASSIGNED TO SIGNATURE			
DISCREPANCY	<p>"The SOW calls out for a buyer provided bar code label for the CCAs (with SLAC tracking number), to be applied subsequent to conformal coat. There is no mention of this part/material on the CCA dwg."</p>		
NOTES			
CAUSE	<p>Label not provided.</p>		
CORRECTIVE ACTION	<p>Immediate C/A Mark boards using CAT-LINK ENTHONE #50-100R, WHITE with Serial Numbers provided by SLAC. SLAC Design Engineering to evaluate and change drawing accordingly.</p>		
FINAL DISPOSITION	REWORK		
Q/A APPROVAL	Pat Lujan (e-mails on file)		
Q/A APPROVAL DATE	12/29/2004		
COST OF QUALITY			

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C
Cc: Estey, Brigitte; Tarkington, David; Marsh, Darren S.
Subject: RE: NCMR 2135 and 2136
Attachments:

Sent: Wed 12/29/2004 7:41 PM

approved, both.

Please make sure we provide appropriate labels for the production.

Regards
Gunther

From: Lujan, Patricio C
Sent: Wed 12/29/2004 5:55 PM
To: Haller, Gunther
Cc: Estey, Brigitte; Tarkington, David; Marsh, Darren S.
Subject: NCMR 2135 and 2136

Gunther,

For your review and approval.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: Time Sheet
Attachments:

Sent: Tue 12/7/2004 3:51 PM

Thanks for asking.

I am delegating my MRB approval authority to you during my absence.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, December 07, 2004 2:42 PM
To: Marsh, Darren S.
Subject: RE: Time Sheet

Will you designate someone for MRB approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2151"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="1/4/2005"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text" value="19"/>
CUSTOMER CONTACT	<input type="text" value="David Tarkington"/>	VENDOR DEFECT	<input checked="" type="checkbox"/>
VENDOR	<input type="text"/>	QUANTITY REJECTED	<input type="text" value="22"/>
PART NUMBER	<input type="text" value="LAT-DS-00554"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="22"/>	QUANTITY REJECTED	<input type="text" value="22"/>
SALES ORDER	<input type="text" value="F17200"/>	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	<input type="text" value="48799"/>	QUANTITY REWORKED	<input type="text"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text"/>	PURCHASING QUANTITY REJECTED	<input type="checkbox"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="David Tarkington"/>		
DATE REQUIRED	<input type="text" value="1/5/2005"/>		
ASSIGNED TO SIGNATURE	<input type="text"/>		
DISCREPANCY	Ref. DWG ZN C-5: Should be 2.253 BASIC Is: 2.100 Unable to assemble LAT-DS-01481.		
NOTES	David Tarkington to provide repair instructions. GTC to machine 3 bases. 19 to be repaired by SLAC.		
CAUSE	Machining error. Dimension should be taken from Datum -A- not center line of other relief hole.		
CORRECTIVE ACTION	To be supplied by vendor.		
FINAL DISPOSITION	<input type="text" value="REPAIR"/>		
Q/A APPROVAL	<input type="text" value="Pat Lujan (e-mails on file)"/>		
Q/A APPROVAL DATE	<input type="text" value="1/4/2005"/>		
COST OF QUALITY	<input type="text"/>		

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<i>NCMR NUMBER</i>	<input type="text" value="2152"/>	<i>CUSTOMER RETURN</i>	<input type="checkbox"/>
<i>DATE</i>	<input type="text" value="1/4/2005"/>	<i>RMA NUMBER</i>	<input type="text"/>
<i>CUSTOMER</i>	<input type="text" value="SLAC"/>	<i>QUANTITY RETURNED</i>	<input type="text"/>
<i>CUSTOMER CONTACT</i>	<input type="text" value="David Tarkington"/>	<i>VENDOR DEFECT</i>	<input type="checkbox"/>
<i>VENDOR</i>	<input type="text"/>	<i>QUANTITY REJECTED</i>	<input type="text"/>
<i>PART NUMBER</i>	<input type="text" value="LAT-DS-01482"/>	<i>PRODUCTION DEFECT</i>	<input type="checkbox"/>
<i>LOT QUANTITY</i>	<input type="text" value="3"/>	<i>QUANTITY REJECTED</i>	<input type="text"/>
<i>SALES ORDER</i>	<input type="text" value="F17300"/>	<i>REWORK REQUIRED</i>	<input type="checkbox"/>
<i>PURCHASE ORDER</i>	<input type="text" value="48800"/>	<i>QUANTITY REWORKED</i>	<input type="text"/>
<i>LOT NUMBER</i>	<input type="text"/>	<i>PURCHASING DEFECT</i>	<input type="checkbox"/>
<i>WORK ORDER</i>	<input type="text"/>	<i>PURCHASING QUANTITY REJECTED</i>	<input type="checkbox"/>
<i>INITIATOR</i>	<input type="text" value="Pat Lujan"/>		
<i>ASSIGNED TO</i>	<input type="text" value="David Tarkington"/>		
<i>DATE REQUIRED</i>	<input type="text" value="1/5/2005"/>		
<i>ASSIGNED TO SIGNATURE</i>	<input type="text"/>		
<i>DISCREPANCY</i>	1) Excess cable length does not allow for assembly as shown in drawing. 2) Cable harness support does not allow for assembly due to proximity to other components. 3) Unable to bond cable harness support to conformal coated board. 4) DWG note 8 does not provide enough detail regarding serial number.		
<i>NOTES</i>			
<i>CAUSE</i>	Design		
<i>CORRECTIVE ACTION</i>	Provide repair instructions and modify drawings.		
<i>FINAL DISPOSITION</i>	<input type="text" value="REPAIR"/>		
<i>Q/A APPROVAL</i>	<input type="text" value="Pat Lujan (emails on file)"/>		
<i>Q/A APPROVAL DATE</i>	<input type="text" value="1/4/2005"/>		
<i>COST OF QUALITY</i>	<input type="text"/>		

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: NCMR's 2151 and 2152
Attachments:

Sent: Tue 1/4/2005 5:41 PM

Approve NCMR's.

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Tuesday, January 04, 2005 4:10 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: NCMR's 2151 and 2152

Attached are NCMR's for your review and approval.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C; Haller, Gunther
Cc: Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: RE: NCMR's 2151 and 2152
Attachments:

Sent: Tue 1/4/2005 5:41 PM

Approved.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, January 04, 2005 4:10 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Estey, Brigitte; Nelson, David J.; Tarkington, David
Subject: NCMR's 2151 and 2152

Attached are NCMR's for your review and approval.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<p>NCMR NUMBER <input type="text" value="2156"/></p> <p>DATE <input type="text" value="1/5/2005"/></p> <p>CUSTOMER <input type="text" value="SLAC"/></p> <p>CUSTOMER CONTACT <input type="text" value="Pat Lujan"/></p> <p>VENDOR <input type="text"/></p> <p>PART NUMBER <input type="text" value="LAT-DS-01481"/></p> <p>LOT QUANTITY <input type="text" value="3"/></p> <p>SALES ORDER <input type="text" value="F17200"/></p> <p>PURCHASE ORDER <input type="text" value="48799"/></p> <p>LOT NUMBER <input type="text"/></p> <p>WORK ORDER <input type="text"/></p> <p>INITIATOR <input type="text" value="Pat Lujan"/></p> <p>ASSIGNED TO <input type="text" value="Dave Tarkington"/></p> <p>DATE REQUIRED <input type="text" value="1/10/2005"/></p> <p>ASSIGNED TO SIGNATURE <input type="text"/></p> <p>DISCREPANCY <input type="text" value="1) Unable to torque FN-4 screws at 28 in-oz."/></p> <p>NOTES <input type="text"/></p> <p>CAUSE <input type="text" value="1) No running torque specified."/></p> <p>CORRECTIVE ACTION <input type="text" value="1) Change drawing to add running torque requirement."/></p> <p>FINAL DISPOSITION <input type="text" value="GET CUSTOMER APPROVAL"/></p> <p>Q/A APPROVAL <input type="text" value="Pat Lujan (e-mails on file)"/></p> <p>Q/A APPROVAL DATE <input type="text" value="1/20/2005"/></p> <p>COST OF QUALITY <input type="text"/></p>	<p>CUSTOMER RETURN <input type="checkbox"/></p> <p>RMA NUMBER <input type="text"/></p> <p>QUANTITY RETURNED <input type="text"/></p> <p>VENDOR DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text"/></p> <p>PRODUCTION DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text"/></p> <p>REWORK REQUIRED <input type="checkbox"/></p> <p>QUANTITY REWORKED <input type="text"/></p> <p>PURCHASING DEFECT <input type="checkbox"/></p> <p>PURCHASING QUANTITY REJECTED <input type="text"/></p>
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Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: NCMR2156
Attachments:

Sent: Thu 1/20/2005 5:47 PM

Approved.

Darren

From: Lujan, Patricio C
Sent: Thu 1/20/2005 9:33 AM
To: Marsh, Darren S.
Subject: FW: NCMR2156

Please review and approve attached NCMR2156.

Pat

From: Haller, Gunther
Sent: Wed 1/5/2005 5:14 PM
To: Lujan, Patricio C
Subject: RE: NCMR2156

approve

Dr. Gunther Haller

Stanford University/SLAC

MS 96


P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Wednesday, January 05, 2005 2:41 PM
To: Estey, Brigitte; Haller, Gunther; Marsh, Darren S.
Cc: Tarkington, David; Nelson, David J.
Subject: RE: NCMR2156

 You forwarded this message on 1/20/2005 10:33 AM.

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C
Cc:
Subject: RE: NCMR2156
Attachments:

Sent: Wed 1/5/2005 5:14 PM

approve

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Wednesday, January 05, 2005 2:41 PM
To: Estey, Brigitte; Haller, Gunther; Marsh, Darren S.
Cc: Tarkington, David; Nelson, David J.
Subject: RE: NCMR2156

From: Estey, Brigitte
Sent: Wed 1/5/2005 3:26 PM
To: Lujan, Patricio C; Haller, Gunther; Marsh, Darren S.
Cc: Tarkington, David; Nelson, David J.
Subject: RE: NCMR2156

no attachment....

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	2161	CUSTOMER RETURN	<input type="checkbox"/>
DATE	1/6/2005	RMA NUMBER	
CUSTOMER	SLAC	QUANTITY RETURNED	
CUSTOMER CONTACT		VENDOR DEFECT	<input type="checkbox"/>
VENDOR		QUANTITY REJECTED	
PART NUMBER	LAT-DS-02388	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	3	QUANTITY REJECTED	
SALES ORDER	F17300	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	48800	QUANTITY REWORKED	
LOT NUMBER		PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER		PURCHASING QUANTITY REJECTED	
INITIATOR	Pat Lujan		
ASSIGNED TO	Dave Tarkington		
DATE REQUIRED	1/7/2005		
ASSIGNED TO SIGNATURE			
DISCREPANCY	Per Flag Note 6 Cable ties to be staked with Item 18 on item 4 cable assembly. IS: RTV adhesive used to stake cable tie does not adhere to wire and cable tie. Material does not flake and is removed in one piece.		
NOTES			
CAUSE	Incompatibility of materials		
CORRECTIVE ACTION	Staking not required on cable tie. Remove requirement from drawing.		
FINAL DISPOSITION	REWORK		
Q/A APPROVAL	Pat Lujan (e-mails on file)		
Q/A APPROVAL DATE	1/6/2005		
COST OF QUALITY			

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Tarkington, David; Estey, Brigitte
Subject: RE: NCMR2161
Attachments:

Sent: Thu 1/6/2005 3:43 PM

approve

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Thursday, January 06, 2005 2:37 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Tarkington, David; Estey, Brigitte
Subject: NCMR2161

Please review attached NCMR.

Pat

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C; Haller, Gunther
Cc: Tarkington, David; Estey, Brigitte
Subject: RE: NCMR2161
Attachments:

Sent: Thu 1/6/2005 3:44 PM

Approved.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Thursday, January 06, 2005 2:37 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Tarkington, David; Estey, Brigitte
Subject: NCMR2161

Please review attached NCMR.

Pat

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

<p>NCMR NUMBER <input type="text" value="2173"/></p> <p>DATE <input type="text" value="1/17/2005"/></p> <p>CUSTOMER <input type="text" value="SLAC"/></p> <p>CUSTOMER CONTACT <input type="text" value="Jeffrey Ludvik"/></p> <p>VENDOR <input type="text"/></p> <p>PART NUMBER <input type="text" value="LAT-DS-01643"/></p> <p>LOT QUANTITY <input type="text" value="3"/></p> <p>SALES ORDER <input type="text" value="F17301"/></p> <p>PURCHASE ORDER <input type="text" value="53627"/></p> <p>LOT NUMBER <input type="text"/></p> <p>WORK ORDER <input type="text" value="111593, 111594, 111595"/></p> <p>INITIATOR <input type="text" value="Pat Lujan"/></p> <p>ASSIGNED TO <input type="text" value="Jeffrey Ludvik"/></p> <p>DATE REQUIRED <input type="text" value="1/18/2005"/></p> <p>ASSIGNED TO SIGNATURE <input type="text"/></p> <p>DISCREPANCY <input type="text" value="1) Test failed at Step 5.5.2 -11 of LAT-TD-04085-02 (GLAT1752, GLAT1753, GLAT1754)"/> <input type="text" value="2) Unable to perform Vibe testing at GTC"/></p> <p>NOTES <input type="text"/></p> <p>CAUSE <input type="text" value="1) Test Failure"/> <input type="text" value="2) Equipment and fixturing problems yet to be resolved"/></p> <p>CORRECTIVE ACTION <input type="text" value="TKR Analog B: Change tolerance to 2.35- 2.78"/> <input type="text" value="CAL Bias current: Change tolerance to 0.000400 - 0.001000"/> <input type="text" value="TKR Analog A: Change tolerance to 1.30 - 1.65"/> <input type="text" value="2) Ship Units to SLAC. SLAC to perform Vibe, Thermal and Functional testing at SLAC and Wylie Lab."/></p> <p>FINAL DISPOSITION <input type="text" value="USE AS IS"/></p> <p>Q/A APPROVAL <input type="text" value="Pat Lujan (e-mails on file)"/></p> <p>Q/A APPROVAL DATE <input type="text" value="1/18/2005"/></p> <p>COST OF QUALITY <input type="text"/></p>	<p>CUSTOMER RETURN <input type="checkbox"/></p> <p>RMA NUMBER <input type="text"/></p> <p>QUANTITY RETURNED <input type="text"/></p> <p>VENDOR DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text"/></p> <p>PRODUCTION DEFECT <input type="checkbox"/></p> <p>QUANTITY REJECTED <input type="text"/></p> <p>REWORK REQUIRED <input type="checkbox"/></p> <p>QUANTITY REWORKED <input type="text"/></p> <p>PURCHASING DEFECT <input type="checkbox"/></p> <p>PURCHASING QUANTITY REJECTED <input type="checkbox"/></p>
--	--

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C; Haller, Gunther
Cc: Estey, Brigitte
Subject: RE: NCMR2173
Attachments:

Sent: Tue 1/18/2005 3:13 PM

Approved with change recommended by Gunther Haller.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Tuesday, January 18, 2005 11:39 AM
To: Marsh, Darren S.; Haller, Gunther
Cc: Estey, Brigitte
Subject: NCMR2173

I added an additional item to NCMR 2173 that should cover the Vibe and TC testing. Please review.

Pat

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Ludvik, Jeffrey; Estey, Brigitte; Nelson, David J.
Subject: RE: NCMR
Attachments:

Sent: Tue 1/18/2005 12:34 PM

This one is ok. The flight TPS had some set values changed compared to the EGSE (e.g. TKR voltage).

The monitored readback is ok for the flight and the limits were adjusted.

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Tuesday, January 18, 2005 11:23 AM
To: Marsh, Darren S.; Haller, Gunther
Cc: Ludvik, Jeffrey; Estey, Brigitte; Nelson, David J.
Subject: FW: NCMR

I need this reviewed so that I can clean up some paper work prior to shipping the units to SLAC.

Pat

From: Lujan, Patricio C
Sent: Mon 1/17/2005 4:47 PM
To: Haller, Gunther; Marsh, Darren S.
Cc: Ludvik, Jeffrey; Estey, Brigitte; Nelson, David J.
Subject: NCMR

Attached is NCMR2173 for your review.

Jeffrey,

This documents the changes you made to the procedure.

Pat

You replied on 1/18/2005 1:51 PM.

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Estey, Brigitte
Subject: RE: NCMR2173

Sent: Tue 1/18/2005 12:59 PM

Attachments:

I think it should say : unable to perform vib testing at GT (not SLAC)

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Tuesday, January 18, 2005 11:39 AM
To: Marsh, Darren S.; Haller, Gunther
Cc: Estey, Brigitte
Subject: NCMR2173

I added an additional item to NCMR 2173 that should cover the Vibe and TC testing. Please review.

Pat

From: Marsh, Darren S.
Sent: Tue 1/18/2005 4:57 AM
To: Lujan, Patricio C
Subject: FW: shock sensors

Pat,

GENERAL TECHNOLOGY CORPORATION NONCONFORMANCE MATERIAL/RMA REPORT

NCMR NUMBER	<input type="text" value="2179"/>	CUSTOMER RETURN	<input type="checkbox"/>
DATE	<input type="text" value="1/20/2005"/>	RMA NUMBER	<input type="text"/>
CUSTOMER	<input type="text" value="SLAC"/>	QUANTITY RETURNED	<input type="text"/>
CUSTOMER CONTACT	<input type="text" value="Pat Lujan"/>	VENDOR DEFECT	<input type="checkbox"/>
VENDOR	<input type="text"/>	QUANTITY REJECTED	<input type="text"/>
PART NUMBER	<input type="text" value="LAT-DS-01643"/>	PRODUCTION DEFECT	<input type="checkbox"/>
LOT QUANTITY	<input type="text" value="3"/>	QUANTITY REJECTED	<input type="text"/>
SALES ORDER	<input type="text" value="F17301"/>	REWORK REQUIRED	<input type="checkbox"/>
PURCHASE ORDER	<input type="text" value="53627"/>	QUANTITY REWORKED	<input type="text"/>
LOT NUMBER	<input type="text"/>	PURCHASING DEFECT	<input type="checkbox"/>
WORK ORDER	<input type="text" value="111593, 111594, 111595"/>	PURCHASING QUANTITY REJECTED	<input type="checkbox"/>
INITIATOR	<input type="text" value="Pat Lujan"/>		
ASSIGNED TO	<input type="text" value="Pat Lujan"/>		
DATE REQUIRED	<input type="text" value="1/20/2005"/>		
ASSIGNED TO SIGNATURE	<input type="text"/>		
DISCREPANCY	The following units are being shipped with out the End Item Date Package.(EIDP)		
NOTES			
CAUSE	Change in location of vibe testing		
CORRECTIVE ACTION	EIDP to be shipped at later date.		
FINAL DISPOSITION	<input type="text" value="GET CUSTOMER APPROVAL"/>		
Q/A APPROVAL	<input type="text" value="Pat Lujan (e-mails on file)"/>		
Q/A APPROVAL DATE	<input type="text" value="1/20/2005"/>		
COST OF QUALITY	<input type="text"/>		

Lujan, Patricio C

From: Haller, Gunther
To: Lujan, Patricio C; Marsh, Darren S.
Cc: Estey, Brigitte
Subject: RE: NCMR2179
Attachments:

Sent: Fri 1/21/2005 10:34 AM

Approved.

But they said they will have the data-package by end of this week.

Is it done now?

And if not, what is holding it up?

Dr. Gunther Haller

Stanford University/SLAC

MS 96

P.O. 20450

Stanford, CA 94309

T: (650) 926-4257

F: (650) 926-2923

From: Lujan, Patricio C
Sent: Friday, January 21, 2005 9:29 AM
To: Lujan, Patricio C; Marsh, Darren S.; Haller, Gunther
Cc: Estey, Brigitte
Subject: RE: NCMR2179

I referenced NCMR2179 on the travelers of the units that shipped yesterday. I need approval of this NCMR to close the loop.

Lujan, Patricio C

From: Marsh, Darren S.
To: Lujan, Patricio C
Cc:
Subject: RE: NCMR2179
Attachments:

Sent: Fri 1/28/2005 8:59 AM

NCR 2179 Approved.

Darren

Darren S. Marsh

GLAST Large Area Telescope Project

Stanford Linear Accelerator Center

2575 Sand Hill Road, M/S 43A

Menlo Park, CA 94025

(650) 926-4577

From: Lujan, Patricio C
Sent: Thursday, January 27, 2005 1:06 PM
To: Marsh, Darren S.
Subject: RE: NCMR2179

As I type GTC is in the process of reviewing the build documentation. I should be done with the test documentation today and will have GTC put in binders and make copies. I would like at least 2 days to review all the documentaion after it is presented to me. I believe I have all the information and NCMRs are closed. I do not see a problem in sending you the EIDP directly.

Pat

GTC TEST DEFECT RECORD REPORT

TEST ID: 20771

PART NUMBER: LAT-DS-01646

TEST TYPE: SPEA

WO: 110154 WC: 4-MIXED

TEST LEVEL: 1ST

SO: F17200

TEST TECH: STEFFEN BODE

DATE: 12/4/2004

TEST QTY: 1

CUSTOMER: SLAC

FAIL QTY: 1

PROGRAM NAME: LAT-DS-01646

SERIAL #	QTY	DEFECT CODE	DEFECT DESCRIPTION	REF DES
611 #1	1	T307	TOMBSTONING	R419

TEST INFO

RW INFO:

REWORKED BY: 1648

INSPECTED BY: [Signature]

DATE: 12-6-04

12.6.04

REWORK NOTES (OPTIONAL):

RETEST NOTES (OPTIONAL):

RETESTED BY: [Signature]

RETEST DATE: P F

12-6-04

[X]

SN, GAT 1743

TEST ID:

GTC TEST DEFECT RECORD REPORT

PART NUMBER: LAT - DS - 02388

TEST TYPE: FUNCTIONAL

WO: 110393 WC:

TEST LEVEL:

SO:

TEST TECH: LUDVIK

TEST QTY: 1

CUSTOMER: SLAC

FAIL QTY: 1

DATE:

12/15/04

PROGRAM NAME: GLAST

SERIAL #	QTY	DEFECT CODE	DEFECT DESCRIPTION	REF DES
GAT 1743	1	NCR # 227		
TEST INFO				
REWORK NOTES (OPTIONAL):				
REPLACE R231 (182K) WITH FNG2 (15K) M55342K06B15EOR				
RETEST NOTES (OPTIONAL):				
Reworked Replaced R231 DL: 1648 12-15-04				
12/16/04				
REWORKED BY: * * * INSPECTED BY: *				
RETESTED BY: J. Ludvik RETEST DATE: P F				
12/15/04 ✓				

DEFECT RECORD REPORT

ID: 27132

PART NUMBER: LAT-DS-02388

ORR ORDER: 110393

SALES ORDER: F17300

QUANTITY: 1 RW QTY: 1

CUSTOMER: SLAC

INSPECTION TYPE: FIRST ARTICLE RUN

INSPECTION LEVEL: 1

INSPECTOR: TORRES

OFF SOLDER: 0

FE ASSEMBLY: 0

ATE: 11/4/2004

WEEK CODE: 46

REF DES PIN NOTES

SERIAL NO. QUANTITY OPERATOR DEFECT CODE WORKCELL DEFECT DESCRIPTION

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	499	A339	4-MIXED	TOMBSTONING	C561	
1	1	499	S402	4-MIXED	INSUFFICIENT SOLDER	L601	
1	1	499	S402	4-MIXED	INSUFFICIENT SOLDER	L601	
1	1	499	S409	4-MIXED	COLD SOLDER JOINT	L6	
1	1	499	S412	4-MIXED	< 75% HEEL FILLET AT 10X MAGN.	D19	
1	1	499	S412	4-MIXED	< 75% HEEL FILLET AT 10X MAGN.	D20	
1	1	499	S412	4-MIXED	< 75% HEEL FILLET AT 10X MAGN.	D5	
1	1	499	S412	4-MIXED	< 75% HEEL FILLET AT 10X MAGN.	D3	
1	1	499	S426	4-MIXED	DISTURBED SOLDER	Q12	
1	1	499	S428	4-MIXED	DISTURBED SOLDER	Q10	
1	1	499	S428	4-MIXED	DISTURBED SOLDER	Q11	
1	1	499	S431	4-MIXED	SOLDER TOUCHING COMP. BODY	D1	

Rewrkd

Ob 11/4/04

11/9/04

11-9-04
 accepted as
 process Ind.

L7
 L12

insuf sold
 " "
 " "

1 499 S402
 " "
 " "

8-04

closed SA

DEFECT RECORD REPORT

ID: 27176

PART NUMBER: LAT-DS-01646

ORK ORDER: 110154

SALES ORDER: F17200

QUANTITY: 1 RWQTY: 1

CUSTOMER: SLAC

OFF SOLDER: 0
FE ASSEMBLY: 0
ATE: 11/8/2004
WEEK CODE: 48

INSPECTION TYPE: 1ST SOLDER INSPECTIO

INSPECTION LEVEL: 1

INSPECTOR: TORRES

REF DES PIN NOTES

U51-16

U53-1

Reworked 11/10/04
DL 1648 11/9/04

DEFECT DESCRIPTION

DEFORMED LEAD

DEFORMED LEAD

SOAP RESIDUE

SERIAL NO. QUANTITY OPERATOR DEFECT CODE WORKCELL

1 1 499 A337 4-MIXED

1 1 499 A337 4-MIXED

1 1 499 S385 4-MIXED

THROUGHOUT

11-10-04

closed

DEFECT RECORD REPORT

OFE SOLDER: 0
 OFE ASSEMBLY: 0
 DATE: 11/12/2004
 WEEK CODE: 48

ID: 27269
 PART NUMBER: LAT-DS-01646
 WORK ORDER: 110154
 SALES ORDER: F17200
 QUANTITY: 1 RW QTY: 1
 CUSTOMER: SLAC

INSPECTION TYPE: HAND SOLDER
 INSPECTION LEVEL: 1
 INSPECTOR: TORRES
 WORK CELL: 4-MIXED

BRD WAS DROPPED } DEEMED BY
 EDGE OF BOARD } NOT
 ALL OVER BOARD } RE-SEC. SUC. JMB
 ALL OVER BOARD } 12/16/04
 R418 }

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	428	A334	4-MIXED	DELAMINATION		
1	1	428	A334	4-MIXED	DELAMINATION		
1	1		A385	4-MIXED	SOAP RESIDUE		
1	1		S407	4-MIXED	NON SOLDERED CONNECTION	R418	
1	1		S414	4-MIXED	SOLDER BALLS		

DEFECT RECORD REPORT

Closed

OFE SOLDER: 817
FE ASSEMBLY: 836
ATE: 11/17/2004
WEEK CODE: 49

INSPECTION TYPE: HAND SOLDER
INSPECTION LEVEL: 1
INSPECTOR: TORRES

ID: 27354
PART NUMBER: LAT-DS-01646
ORK ORDER: 110154
SALES ORDER: F17200
QUANTITY: 1 **RW QTY:** 1
CUSTOMER: SLAC

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	692	A310	4-MIXED	MISSING MARKING	JT1-3,6	MFG # 11-18-04
1	1	692	A312	4-MIXED	MARKING IS FADING	JT0	MFG #
1	1	692	A385	4-MIXED	SOAP RESIDUE	TH OUT	
1	1	692	S406	4-MIXED	EXCESS SOLDER	JT4	11-18-04
1	1	692	S413	4-MIXED	BRIDGING	JT0,2,3	11-18-04
1	1	692	S413	4-MIXED	BRIDGING	JC1	11-18-04

DEFECT RECORD REPORT

David S. 12-16-04

ID: 27728
 PART NUMBER: LAT-DS-02388
 ORK ORDER: 110393
 SALES ORDER: F17300
 INSPECTION TYPE: HAND SOLDER
 INSPECTION LEVEL: 1
 INSPECTOR: TORRES
 OFFE SOLDER: 0
 FE ASSEMBLY: 0
 ATE: 12/7/2004
 WEEK CODE: 51

QUANTITY: 1 RWQTY: 1
 CUSTOMER: SLAC

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	2002	A320	4-MIXED	DAMAGED INSULATION	50	NCMR 2116 (3 pins)
1	1	2002	A320	4-MIXED	DAMAGED INSULATION	38	"USIE AS IS" 12-7-04
1	1	2002	A320	4-MIXED	DAMAGED INSULATION	39	12-16-04
1	1	2002	A343	4-MIXED	INCOMPLETE PAPERWORK	50	PRE. WORK SIGNED OFF 12-7-04
1	1	2002	S400	4-MIXED	PITS AND VOIDS	36	SS 2002
1	1	2002	S400	4-MIXED	PITS AND VOIDS	32	SS 2002
1	1	2002	S400	4-MIXED	PITS AND VOIDS	51	SS 2002
1	1	2002	S402	4-MIXED	INSUFFICIENT SOLDER	36	SS 2002
1	1	2002	S402	4-MIXED	INSUFFICIENT SOLDER	80	SOLDER NOT FLOWED SS 2002
1	1	2002	S426	4-MIXED	ALL OTHER SOLDER DEFECTS	80	SS 2002
1	1	2002	S427	4-MIXED	FLUX RESIDUE	80	SS 2002

Board very dirty - through hole
also: wires used were reacting @ R5 -
1 2002 5431 4mix
Bobbe Touching Comp.

12/7/04
 GTC ST GA
 GTC ST GA

Josef J. 12-12-04

DEFECT RECORD REPORT

OFE SOLDER: 0
FE ASSEMBLY: 0
ATE: 12/1/2004
WEEK CODE: 49

INSPECTION TYPE: HAND SOLDER
INSPECTION LEVEL: 1
INSPECTOR: TORRES

ID: 27595
PART NUMBER: LAT DS 02388
ORK ORDER: 110393
SALES ORDER: F17300
QUANTITY: 1 RW QTY: 1
CUSTOMER: SLAC

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	2002	A301	4-MIXED	MIS ORIENTATION	C3	SS 2002 <i>SSK</i>
1	1	2002	A306	4-MIXED	IMPROPER BEND RADIUS	C2	SS 2002 <i>SSK</i>
1	1	2002	A307	4-MIXED	DAMAGED COMP	C:150	SS 2002 <i>SSK</i>

67C
31
QA
12-7-04

12/7/04

Chowell

DEFECT RECORD REPORT

OFE SOLDER: 0
OFE ASSEMBLY: 104
DATE: 12/16/2004
WEEK CODE: 52

INSPECTION TYPE: BONDING
INSPECTION LEVEL: 1
INSPECTOR: TORRES

ID: 27963

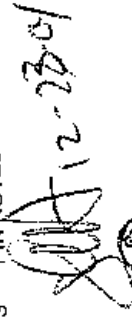

PART NUMBER: LAT-DS-01646

WORK ORDER: 110154

SALES ORDER: F17200

QUANTITY: 1 RW QTY: 1

CUSTOMER: SLAC

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
19(611)	1	1928	A309	4-MIXED	INSUFFICIENT COATING / POTTING / BONDI J1		 

DEFECT RECORD REPORT

ID: 28061

PART NUMBER: LAT-DS-02388

ORK ORDER: 110393

SALES ORDER: F17300

QUANTITY: 1 RW QTY: 1

CUSTOMER: SLAC

OFE SOLDER: 0
 FE ASSEMBLY: 0
 ATE: 12/21/2004
 WEEK CODE: 52

INSPECTION TYPE: BONDING
 INSPECTION LEVEL: 1
 INSPECTOR: TORRES

JTB 12-23-04

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	A348		4-MIXED	MISSING WIRES	IP	

DEFECT RECORD REPORT

OFE SOLDER: 75
OFE ASSEMBLY: 90
DATE: 12/22/2004
WEEK CODE: 51

INSPECTION TYPE: HAND SOLDER
INSPECTION LEVEL: 1
INSPECTOR: HUBBARD

ID: 28082
PART NUMBER: LAT-DS-02386
WORK ORDER: 110393
SALES ORDER: F17300
QUANTITY: 1 **RW QTY:** 1

CUSTOMER: SLAC

SERIAL NO.	QUANTITY	OPERATOR	DEFECT CODE	WORKCELL	DEFECT DESCRIPTION	REF DES	PIN NOTES
1	1	2002	A320	4-MIXED	DAMAGED INSULATION	U7	PIN 4
1	1	2002	A341	4-MIXED	COPLANARITY / LEAD NOT SEATED PROPE	U6	PIN 4,WIRE
1	1	2002	S400	4-MIXED	PITS AND VOIDS	U7	PIN 5
1	1	2002	S400	4-MIXED	PITS AND VOIDS	U8	PIN 3
1	2	2002	S408	4-MIXED	CONTAMINANTS IN SOLDER	U17	PIN2,3
1	1	2002	S408	4-MIXED	CONTAMINANTS IN SOLDER	U10	PIN 5
1	1	2002	S408	4-MIXED	CONTAMINANTS IN SOLDER	U6	PIN 1

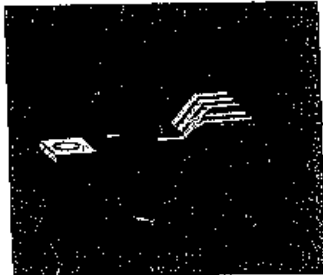

OK 11/16/04
 12-21-04

12/21/04

REWORK TRAVELER

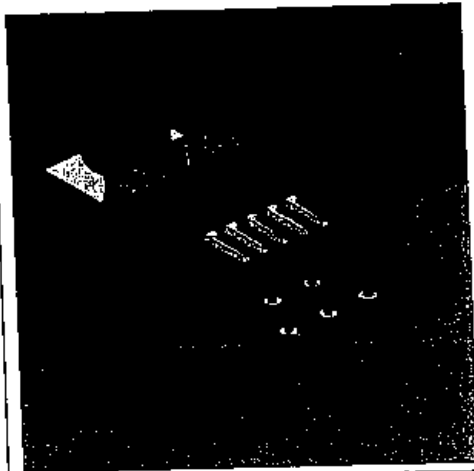
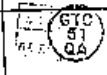
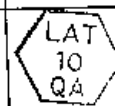
SO NO: F17300	PART NO: LAT-DS-02388	REV: 55
ASSEMBLY NAME: CCA, LAT TOWER POWER SUPPLY (TPS)		QTY: 3

APPROVAL							
HEFKIN	12/1/04	P. LUJAN	12.1.04	HANRAHAN	12/1/04	MORA	12-1-04
PREPARED BY	DATE	CUSTOMER	DATE	PROD MGR	DATE	QA MGR	DATE

STEP	DESCRIPTION	Operator Sign Off.	Date	Time spent
	<p>APPROVED RESOLUTION FOR OPERATION NCMR 2089. 12/16/04</p> <p>This document outlines modification to components U6, U7, U8, U10, U15, U17, and U18 - MAXIM MAX724ECK, and subsequent installation to the CCA. The modification, prepared as applicable to comply with IPC-7721, Section 6.1, entails lead clipping, to remove non-applicable 'as supplied' lead orientation, 'hook-up' wire preparation, mechanical installation with smaller hardware (#4, vs. #6), device lead termination, PCB and lead termination, flux cleaning, inspection, subsequent bonding of the devices using RTV, and final inspection of the rework.</p>			
1	This Rework Traveler is applicable to unit Serial numbers: #1, #2, #3.			
2	<p>Clip leads of seven (7) MAX724ECK devices to obtain a 0.140" lead length, 5 places. Clamp each lead to be clipped using flat-faced needle nose electronics pliers.</p> <p>CONTACT SLAC QAR FOR WITNESS OF WORK.</p> <p style="text-align: center;">MINIMUM CUT AT 1ST BEND</p> <div style="display: flex; justify-content: space-around;">   </div>	GTC	GTC	GTC
		SS 2002	12/1/04	
		SLAC LAT 10 QA	12/1/04	N/A
		SS 2002	12/1/04	
3	<p>Cut five (5) wires, M22759/11-24-9, to fit locations of five leads (approximately one inch long, rough length). Strip insulation using HOTWEEZERS. Strip first end, for lap solder termination to device leads, to 1/8" (.125"). Trim other end to fit installation location (length TBD = 1/8" →) and strip insulation (length TBD = 1/8" →) to fit board thickness with lead protrusion of 0.031" to 0.047"</p> <p style="text-align: right;">1/2" flat long</p>			
		SS 2002	12/1/04	
4	<p>Mount IC device to TPS Heatsink frames as detailed in CAA LAT-DS-02388, Step 16, to include thermal conductive adhesive applied to surfaces of devices, and use of smaller hardware: Installation hardware changed from #6 to #4 size as follows:</p> <ul style="list-style-type: none"> • TORQUE SCREW/NUT 60 IN-OZ. (56 to 70) • RECORD TOOL NUMBER (GTC-XXX) AND CAL DUE DATE ON WORK ORDER. 			
		SS 2002	12/2/04	

REWORK TRAVELER

SO NO: F17300	PART NO: LAT-DS-02388	REV: 55
ASSEMBLY NAME: CCA, LAT TOWER POWER SUPPLY (TPS)		QTY: 3

STEP	OPERATION	Operator Sign Off.	Date	Time spent
	<i>This document outlines modification to components U6, U7, U8, U10, U15, U17, and U18 - MAXIM MAX724ECK, and subsequent installation to the CCA. The modification, prepared as applicable to comply with IPC-7721, Section 6.1, entails lead clipping, to remove non-applicable 'as supplied' lead orientation, 'hook-up' wire preparation, mechanical installation with smaller hardware (#4, vs. #6), device lead termination, PCB and lead termination, flux cleaning, inspection, subsequent bonding of the devices using RTV, and final inspection of the rework.</i>			
5	Solder terminate wires to device and PCB. Keep wires short, but do not violate bend radius limits (no sharp bends). 	JS JS 2002	12/4/09	
6	Locally clean each solder (35 places) joint with Isopropyl Alcohol.	JS 2002	12/6/09	
7	INSPECTION NCMR #2116		12/7/09	
8	CUSTOMER SOURCE INSPECTION		12/7/09	
9	(Task occurs when rtv material is being applied to lead assemblies installed after IGT). APPLY RTV ADHESIVE MATERIAL, DC6-1104, TO COVER THE WIRES AS A GROUP, FROM THE PCB TO THE COMPONENT BODY. <i>AFTER FUNCTIONAL TEST. JS 12/16/09</i>	#1 JS #2 JS #3 JS	12/22/09 12/23/09 12/23/09	
10	INSPECTION			
11	CUSTOMER SOURCE INSPECTION			

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