

L3 Communications Internal Corrective Action Request

Document Number	CC00003914	Revision	D	Status	CLS	Nonconforming	
Assigned To	CAC	Corrective Action	Coordinator	Business Unit		DIS	

Identification

Summary Assemblies containing a suspect counterfeit part, U100582-000, were delivered to Lockheed Martin.

Supplier	Part Number
Site Code	
Supplier Part Number	
Manufacturer Part Number	
Generated from Module	Part Revision
Sequence Number	
Drawing Number	Commodity Code
Drawing Revision	Part Criticality Code
End Use Part / Model Number	
Location Code	
Factory	
Date Response Due 12/8/2010	
Date Response Received 12/13/2010 8:41:41 AM	Customer
Date Extended 3/24/2011	Date Identified
Buyer	Lot Quantity
Author durre_c	Inspected
Date Created 11/29/2010 2:41:28 PM	Nonconforming
Date Revised 8/19/2011 7:16:38 AM	Lot Code
Revised By lybarger	Planner
Revision 30	Program
PO Number	End Item Serial Number
Line	Repeat Discrepancy F
Work Order	Product Group
Work Center	Product Sub Group
FRACAS Identifier	Customer Due Date
Customer CA Number	Date Submitted To Customer
Contract	
Project	Priority Rating
Work Supervisor	
	Module
	Document Number
	Is Master

Associated Part Numbers

Part Number	Description	Part Revision
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Processing Dates

Date Discrepancy	2/27/2011 12:51:48 PM	Date Follow Up	7/25/2011 2:10:28 PM
Date Cause/CA	2/27/2011 12:51:52 PM	Date Closed	8/19/2011 7:16:38 AM
Date Approved	3/21/2011 11:35:55 AM		

D1 Team Members

<u>First Name</u>	<u>Last Name</u>	<u>Subscription Identifier</u>	<u>Title / Occupation</u>
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Discrepancy**Letter** A

Revised By durre_c	Category Code Chris Durre	Process Code
D2 Problem Defined T		Date Revised 11/29/2010 3:07:19 PM
		Revision 3

Discrepancy Description

During testing, L-3 identified that the U100582-000 VRAM chip with the 813 date code. The components were sent out for testing by an independent lab, and were found to be suspect counterfeit. Refer to the attached report for additional details.

Customer discrepancy as reported on CAR 15444 is as follows:

L-3 Display Systems SDL SD00387 indicates an issue with a purchased part, the Samsung U100582-000 4MB IC VRAM chip (date code 813) utilized in the Graphics processor board that goes into both the -11 & -13 CMDUs and the -13 MFCD. Additional testing by an external laboratory has confirmed the U100582-000 VRAM chip has been remarked. Parts are suspect to be counterfeit. L3 indicated the parts were purchased from an L3 Corporate approved source/distributor with receipts beginning in March 2009. The distributor Global IC is not an approved OCM distributor per Para C in above requirement. Additional testing by an external laboratory has confirmed the U100582-000 VRAM chip has been remarked. Parts are suspect to be counterfeit. This is the second occurrence of counterfeit parts from Global IC via Hongdark ref. CAR 13554 4 Nov 2009 for the Lattice chip.

Attachment

\\edmund\company\CA Attachments\CC3914 report from SMT.pdf

D0 Emergency Response Action**Letter** A

ERA Implemented T	ERA Performed By durre_c	Date Revised 11/29/2010 3:07:19 PM	Revision 3
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ERA Comments

Shipment of all units was stopped until the problem could be evaluated further.

D3 Containment Action**Letter** A

Containment Implemented T	Containment Performed By durre_c
Date Containment Complete 11/29/2010 3:07:19 PM	Date Containment Due 11/29/2010 2:41:38 PM

Containment Comments

All assemblies within L-3 display systems containing the suspect U100582-000 VRAM were stopped from shipping. ECN 57322 was implemented to rework the assemblies with the U100538-001 VRAM chip, which is available from the OCM.

A supplier disclosure letter was generated and submitted to Lockheed Martin containing a list of serial numbers that may contain the U100582-000 VRAM. Refer to the attachment for additional details.

9/16/2011 11:29:38 AM

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L3C0003830

Cause/Corrective Action**Letter** A

Cause Code V01 Supplier Induced
Corrective Action Code ECN ECN to be generated.
Revised By durre_c Chris Durre
Action Due

Date Revised 2/26/2011 7:51:54 AM
Revision 5

Detail Task Planning Required for this line item? F**Preventative Action** T**Corrective Action** T**D4 Root Cause Analysis**

Supplier Induced:

Counterfeit parts were not pulled from stock previously during lattice chip - Determine the source, and implement a process for reacting to issues. Include the requirement for disclosure of the source in the QA clause.

Parts were approved for usage - Small sample size, and policy allows us to accept a large lot based on a small sample size

Lybarger

During the investigation several areas of concern were detected:

- Supplier (Global IC) supplied parts procured from a source known to have provided counterfeit parts in the past.
- Global IC did not test parts prior to shipping them to Oneida Research Labs for testing.
- A date code sample was selected by Global IC and sent to ORS for independent testing and found to be acceptable by them.

D5 Permanent Corrective Action Description

ECN to be generated.

ECN 57322 has been initiated to change the VRAM chip on the part to an alternate (U100538-001), and to increase the C/S level of the units. Pending a response from Lockheed, L-3 will replace the U100582-000 units on an attrition basis through the effectivity date on ECN 57322.

If attrition is not accepted as a response, L-3 modify all units through return from the field.

Lybarger

- Global IC has been Disapproved as a vendor for Display Systems and the corporate counterfeit parts team has been notified of the latest issue.
- Testing will require the supplier to send the entire order for testing and the test house will select the sample
- ORS will no longer be considered for testing. Future testing will be conducted by SMT Corp.

D7 Preventative Corrective Action Description

Modify ENG 010-049 to incorporate changes in sample size, as well as testing requirements. Update QA 122-305A clause 30.0 to communicate the change in requirements to the supply base.

Lybarger

Quality clause 30.0 is being rewritten to address vendor QMS requirements for counterfeit parts mitigation. Until QA 122-305A is revised QAB 609 is in effect, see attached.

D4 Root Cause Analysis**RCA Defined** T**RCA Performed By** lybarger**Date RCA Defined** 12/13/2010 8:41:29 AM**D5 Permanent Corrective Action****PCA Defined** T**PCA Performed By** lybarger**Date PCA Defined** 12/13/2010 8:41:30 AM**Preventative Action Attachment**

\\edmund\company\ISO 9001\QAB\QABs\120710_609.pdf

CA Approvals

Rev	Responsible	Approved By	Date/Time Approved	N/A
A	CAC			
C	CAC			
D	CAC	lybarger	Ron Lybarger	3/21/2011 11:35:55 AM
A	durre_c			
C	durre_c	durre_c	Chris Durre	2/26/2011 7:52:01 AM
D	durre_c	durre_c	Chris Durre	3/21/2011 10:56:00 AM

Approval Comments

Follow Up

Effectivity	Reinspection Results	Follow Up
Date 3/21/2011	On Hand	Date Action Due 7/15/2011
Quantity	Accepted	Date Verified 7/25/2011
Unit	Discrepant	Verified By pawar_d
		Verified T

Followup Comments

ENG 010-049 Rev B issued for circulation on 6/10/11.

D6 Permanent Corrective Action Effectivity

PCA Effectivity Verified T PCA Verified By pawar_d Date PCA Verified 7/25/2011

D7 Effectiveness

Effectiveness Verified T Effectiveness Verified By pawar_d Date Effectiveness Verified 7/25/2011

Closure Information

Letter A

Date Revised 8/19/2011 Revision 2 Revised By lybarger Ron Lybarger

D8 Team Recognition

Team Recognized T Recognition Performed By lybarger Date Recognition Complete 7/25/2011