CARLO GAVAZZI SPACE SpA

0 CERN MIT L3 A&C/AMS

AMS02-PDS

NON CONFORMANCE REPORT

1 NCR ref

Doc.N°: NCR-PDS-CGS-C-140
Rev.: 1 Date: 14/09/2009
Page 1 of 1 attach: 1

2 NCR Title: SIDE A ESEM3-A-3 trip time out of tolerance during HOT temperature TV cycling

IDENTIFICATION

3 Supplier	4 Purchase Order N°.	5 Model	6 Subsystem	7 Procedure/Work Item N°
CGS	N.A.	PFM	N.A.	N.A.

8 NC ITEM Identification	9 Drawing N°. Rev.	10 P.N. / C.I. N°	11 Serial N°
ESEM 3-A Board ASSY	11-AMS02PDS-300.00 /	11-AMS02PDS-300.00	04

12 Next Higher Unit Id.	13 Drawing N°. Rev.	14 P.N. / C.I. N°	15 Serial N°.
AMS02 Power Distribution System Assembly	10-AMS02PDS-000.00 /	10-AMS02PDS-000.00 / PDS18	FM01

DESCRIPTION

16 NON CONFORMANCE Detected During:

RECEIVING INSP. [ ] MANUFACT. [ ] ASSEMBLY/INTEGRATION [ ] FINAL INSPECTION [ ] TEST [X] OTHER..... [ ]

17 Initiator, Dept., Date, Signature R. Grossi, DT/PE, 14/09/2009

18 Description of NON CONFORMANCE

During off-line verification of data in PDS-RP-CGS-121 *"PDS FULL FUNCTIONAL TEST REPORT DURING THERMAL VACUUM CYCLING IN HOT CASE"*, the following trip time datum has been found out of specified tolerance (4.5+6.5ms, see PDS-WV-CGS-001):

- Side A ESEM3-A-3 p/n: 11-AMS02PDS-300.00 s/n: 04

See Annex 1 for detailed measured values

19 Requirements violated

¶3.2.3.8 of AMS-RQ-CGS-002 Is.1 *"Power Distribution System (PDS) Specifications"*

INTERNAL NRB DISPOSITIONS

20 INTERNAL NRB Dispositions:

As trip-off time duration increase would require the replacement of some components in the circuit that performs time counting inside ESEM3-A module, jeopardising on time PDS delivery to AMS collaboration, CGS proposal is to leave the unit "as it is"

21 Verifications

22 Suspected cause of NC: HANDLING [ ] TRANSPORTATION [ ] TEST EQUIPMENT [ ] TOOLS [ ] SW [ ] DESIGN [X] OPERATOR/PROCEDURE ERROR [ ] PART [ ] MATERIAL [ ] PROCESS [ ] TEST [ ] OTHER..... [ ]

23 Classification MINOR [ ] MAJOR [X]

Corrective/Preventive Actions: 24

25 REQUEST FOR WAIVER YES [ ] NO [X] N°

26 Analysis Required YES [ ] NO [ ] N°

27 Other related documents:

Department:	28 P.A.	29 Syst. Engineering	30	30 P.M.	31 C.C.
Name:	Francini E.	Alia S.		Olivier M.	Cinquepalmi C.
Signature:	[signature]	[signature]		[signature]	[signature]
Date:	15/09/09	15/9/09		15/09/09	15/09/09

CUSTOMER/HIGHER LEVEL CONTRACTOR NRB DISPOSITIONS

32 CUSTOMER/HIGHER LEVEL CONTRACTOR NRB Dispositions (Class Major Only):

21 Verifications

33 Finally determined Cause of NC

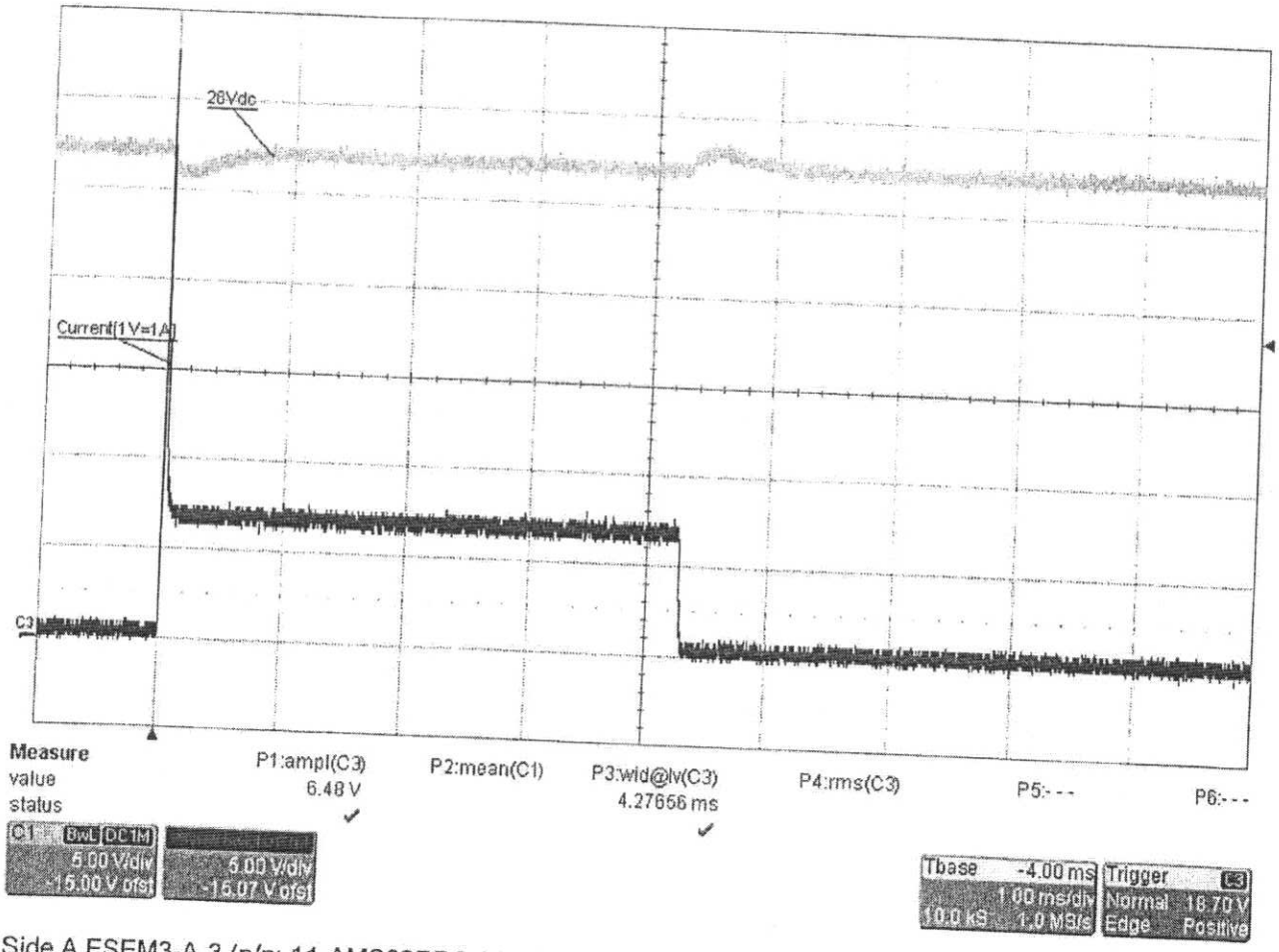
34 Corrective/Preventive Actions:

35 Customer/HLContractor Approval:

Department:	AMS	ASI	ASI	
Name:	Michael Cupell	Ernesto Mantovani	E. RUSSO	
Signature:	[signature]	[signature]	[signature]	
Date:	18 Sep 09	21 Sept. 09	21 Sept. 09	

36 CLOSE OUT CERTIFICATION

CGS PA/QA	PA/QA Stamp
E. FRANCINI	CQ 2 C.G.S.
[signature] 30/09/09	



Side A ESEM3-A-3 (p/n: 11-AMS02PDS-300.00 s/n: 04) trip characteristics during HOT plateau of TVT cycles