INSPECTION REPORT

APPLICABLE DOC. REF.	PROC. REF.
AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001 is. 1	N.A.

ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM – PB2 FPGA Board Assy p/n:11-AMS02PDS-710.00 s/n:07-038 / H, Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:02 –- Inspection Point.

REQUIREMENT SATISFIED

Manufacturing according to aerospace standards

INSPECTION (Action/Results)

DESCRIPTION

Inspection was performed at Carlo Gavazzi Space premises starting on 05 June 2008 and was carried out on the following boards, detail of the inspected boards were below reported:

1) PB2 FPGA Board Assy p/n:11-AMS02PDS-710.00 s/n:07-038 / H.
2) Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:02 (pcb s/n:2641.2).

HARDWARE REVIEW

1) PB2 FPGA Board Assy p/n:11-AMS02PDS-710.00 s/n:07-038 / H, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A3 can be considered closed

On the pcb the U8 (A1020B-CQ84B FPGA) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

2) Esem 1-A Board Assy p/n:11-AMS02PDS-600.00 s/n:02 (pcb s/n:2641.2), Assy:11-AMS02PDS-600.00 rev./, Parts List:11-AMS02PDS-600.01rev.A, Electrical Scheme:11-AMS02PDS-600.02 rev./, Master PCB:FSL-010110-DR-03-CGS rev./.

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-002(electronic components assembly problems), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-025(electrical problem on Esem 1-A power cells controllers), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added two capacitors with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-027(over voltage protection missing), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-037(assembly of inductances not clear), NCR classified "minor" is closed.

	Operator	Quality Assurance	C.C.
Signature		E. FRANCINI	C. CINQUEPALMI
Date		09/06/08	16/6/8

INSPECTION REPORT

APPLICABLE DOC. REF. See page 1	PROC. REF. See page 1
ITEM INSPECTED (Name, P/N, S/N) See page 1	
REQUIREMENT SATISFIED See page 1	

INSPECTION (Action/Results)

- NCR-PDS-CGS-C-059(output voltage wrong value), NCR classified "minor" is still open during the inspection activity, all the corrective actions will be performed.
- NCR-PDS-CGS-C-061(damaged pad and pcb), NCR classified "minor" is still closed.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-600.01 rev A - A1 can be considered closed.
- 11-AMS02PDS-600.01 rev A - A2 can be considered closed.
- 11-AMS02PDS-600.01 rev A - A3 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

CONCLUSION

All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08 and ECSS-Q-70-38, all modifications are performed according to ECSS-Q-70-28.

The open points are here listed:

1) On PB2 FPGA Board Assy p/n:11-AMS02PDS-710.00 s/n:07-038 / H the U8 (A1020B-CQ84B FPGA) component is not mounted.
2) NCR-PDS-CGS-C-025(electrical problem on Esem 1-A power cells controllers), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added two capacitors with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
3) NCR-PDS-CGS-C-027(over voltage protection missing), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
4) NCR-PDS-CGS-C-059(output voltage wrong value), NCR classified "minor" is still open during the inspection activity, all the corrective actions will be performed.

	Operator	Quality Assurance	C.C.
Signature		E. FRANCINI	C. CINQUEPALMI
Date		09/06/08	16/6/8

C.G.S.