DOCUMENT CHANGE REQUEST

DCR number 2	Changes required for: MRB decision	Originator: Baviere
Date: 2002/11/27	Date sent: 2002/11/27	Organisation: CNES
Status: IMPLEMENTED		

Title:	Generic Specification for Relays Electromagnetic Non-Latching		
Number:	3601	Issue:	1

Other documents affected:

3602-1

Page:

Paragraph:

Original wording:

Proposed wording:

Justification:

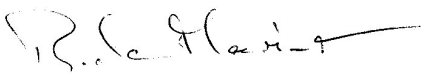
Attachments:

Attachment_DCR_2.pdf, null

Modifications:

N/A

Approval signature:



Date signed:

2002-11-27

DOCUMENTATION CHANGE REQUEST

TO BE COMPLETED BY ORIGINATOR

Originator (1)	Originator signature (2)	NA or ESA representative signature (3)	*Change request No.* (4)
Ph. BAVIERE Affiliation CNES	Date: 22/10/2002	J-P BUSSENOT Date: pp S. Thaller. 24/10/2002	2 Page 1 of [7] (5)

DOCUMENT AFFECTED

Doc. No. (6)	Status (7)	Title (8)	Other documents affected (10)
3601	5-	GENERIC SPEC-RELAYS NON-LATCHING	NO
3602	5-	GENERIC SPEC-RELAYS LATCHING	

Paragraph(s) and page(s) affected (9)
para. 8.2.3(d), Chart V

PROPOSED WORDING OF CHANGE (11)

Addition of Overload to LAT level 3 Ass./Capab Tests.
See attached mark-up pages for details

Continuation sheet(s) attached ☒ Yes ☐ No

JUSTIFICATION (12)

MRB decision following NCCS 2CLEA202 about GP250

Continuation sheet(s) attached ☐ Yes ☒ No

Changes required for: Procurement (project) ☐ Qualification ☐ MRB decision ☒ (13)
General Improvement of Spec. ☐ Other ☐

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Date of registration:	Order of Priority for Appr. / Impl.: 1 (high) ☐ 2 (medium) ☐ 3 (low) ☐
Attachments: ☐	Qualification Status: Qualified ☐ In process of qualification ☐

RESERVED FOR USE BY APPROVING AUTHORITY

Approved	Date and signature	Reference to ~~SCCG~~ decision
☑ Yes ☐ No Priority 4	09.01.2004	PSWG 8th Meeting

Approved wording if different from box 11 or reason for rejection (14)

as is

20800/1/P8.

Continuation sheet(s) attached ☐ Yes ☐ No

ESA/SCC 3601 DCR2. change sheets.
S. Thacker
18/10/02

european space agency
agence spatiale européenne

Pages 1 to 38

RELAYS, ELECTROMAGNETIC,

NON-LATCHING

ESA/SCC Generic Specification No. 3601

space components
coordination group

Issue/Rev.	Date	Approved by	
		SCCG Chairman	ESA Director General or his Deputy
Issue 5	April 1999		

8.2.3 Lot Acceptance Level 3 Testing (LA3)

Lot acceptance level 3 tests are designated as the electrical subgroup and comprise electrical measurements of characteristics and tests to prove the assembly capability of the component. For LA3 testing, the following requirements and conditions shall apply:-

(a) LA3 testing shall be performed by the Manufacturer's quality assurance personnel using dedicated quality assurance equipment whenever possible. LA3 testing shall not be a repetition of routine measurements made by production personnel during final production tests and screening and electrical measurements.

(b) When tests to Tables 2 and 3 of the Detail Specification have been performed on a sample basis, then the components for LA3 testing shall be selected from this sample.

(c) The electrical measurements for LA3 are considered to be non-destructive and therefore components so tested may form part of the delivery lot.

(d) The solderability and terminal strength tests are considered to be destructive and therefore components so tested shall not form part of the delivery lot. ~~Post screening electrical rejects may be used for these tests.~~ Post screening visual rejects may be used for these tests at the discretion of the manufacturer.

(e) When required in the purchase order, the Manufacturer shall notify the Orderer at least 2 working weeks before the commencement of LA3 testing. The Orderer shall indicate immediately whether or not he intends to witness the tests.

8.2.4 Lot Acceptance Level 2 Testing (LA2)

Lot acceptance level 2 testing shall comprise the tests for LA3 (electrical subgroup) plus tests on an endurance subgroup. For the electrical subgroup, the requirements and conditions as for LA3 (see Para. 8.2.3) shall apply.

For the endurance subgroup, the following shall apply:-

(a) The tests in this subgroup are considered to be destructive and therefore components of testing level "B" so tested shall not form part of the delivery lot.

8.2.5 Lot Acceptance Level 1 Testing (LA1)

Lot acceptance level 1 testing shall comprise the tests for LA3 (electrical subgroup) and LA2 (endurance subgroup) plus tests on an environmental and mechanical subgroup. For the electrical and endurance subgroups, the requirements and conditions for LA3 (see Para. 8.2.3) and LA2 (see Para. 8.2.4) respectively shall apply.

For the environmental subgroup, the following shall apply:-

(a) The tests in this subgroup are considered to be destructive and therefore components of testing level "B" so tested shall not form part of the delivery lot.

8.3 FAILURE CRITERIA

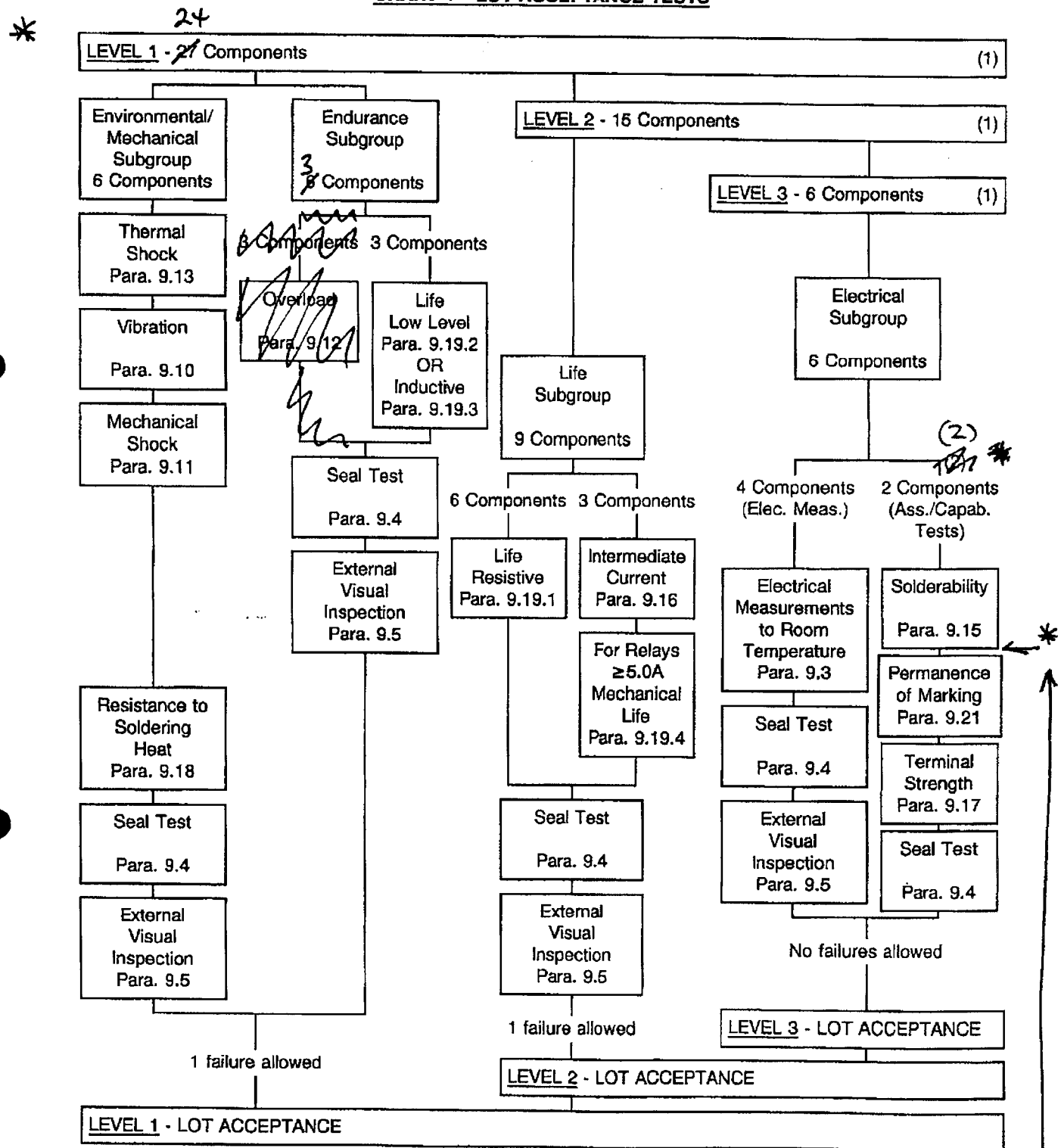
The following criteria shall apply to qualification testing and to lot acceptance testing.

8.3.1 Environmental and Mechanical Test Failures

The following shall be counted as component failures:

- Components which fail during tests for which the pass/fail criteria are inherent in the test method, e.g. solderability, terminal strength, etc.

CHART V - LOT ACCEPTANCE TESTS



NOTES

1. For distribution within the sample, see Para. 8.2.2.
2. ~~Post screening electrical rejects may be used for this test.~~ Post screening visual rejects may be used for these tests at the discretion of the manufacturer.

Overload Para. 9.12

ESA/SCC 3602 DCR 2 change sheets.
S. Thacker 18/12/02

european space agency
agence spatiale européenne

Pages 1 to 37

RELAYS, ELECTROMAGNETIC,

LATCHING

ESA/SCC Generic Specification No. 3602

space components
coordination group

Issue/Rev.	Date	Approved by	
		SCCG Chairman	ESA Director General or his Deputy
Issue 5	April 1999		

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Lot acceptance level 2 testing shall comprise the tests for LA3 (electrical subgroup) plus tests on an endurance subgroup. For the electrical subgroup, the requirements and conditions as for LA3 (see Para. 8.2.3) shall apply.

For the endurance subgroup, the following shall apply:-

(a) The tests in this subgroup are considered to be destructive and therefore components of testing level "B" so tested shall not form part of the delivery lot.

8.2.5 Lot Acceptance Level 1 Testing (LA1)

Lot acceptance level 1 testing shall comprise the tests for LA3 (electrical subgroup) and LA2 (endurance subgroup) plus tests on an environmental and mechanical subgroup. For the electrical and endurance subgroups, the requirements and conditions for LA3 (see Para. 8.2.3) and LA2 (see Para. 8.2.4) respectively shall apply.

For the environmental subgroup, the following shall apply:-

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8.3 FAILURE CRITERIA

The following criteria shall apply to qualification testing and to lot acceptance testing.

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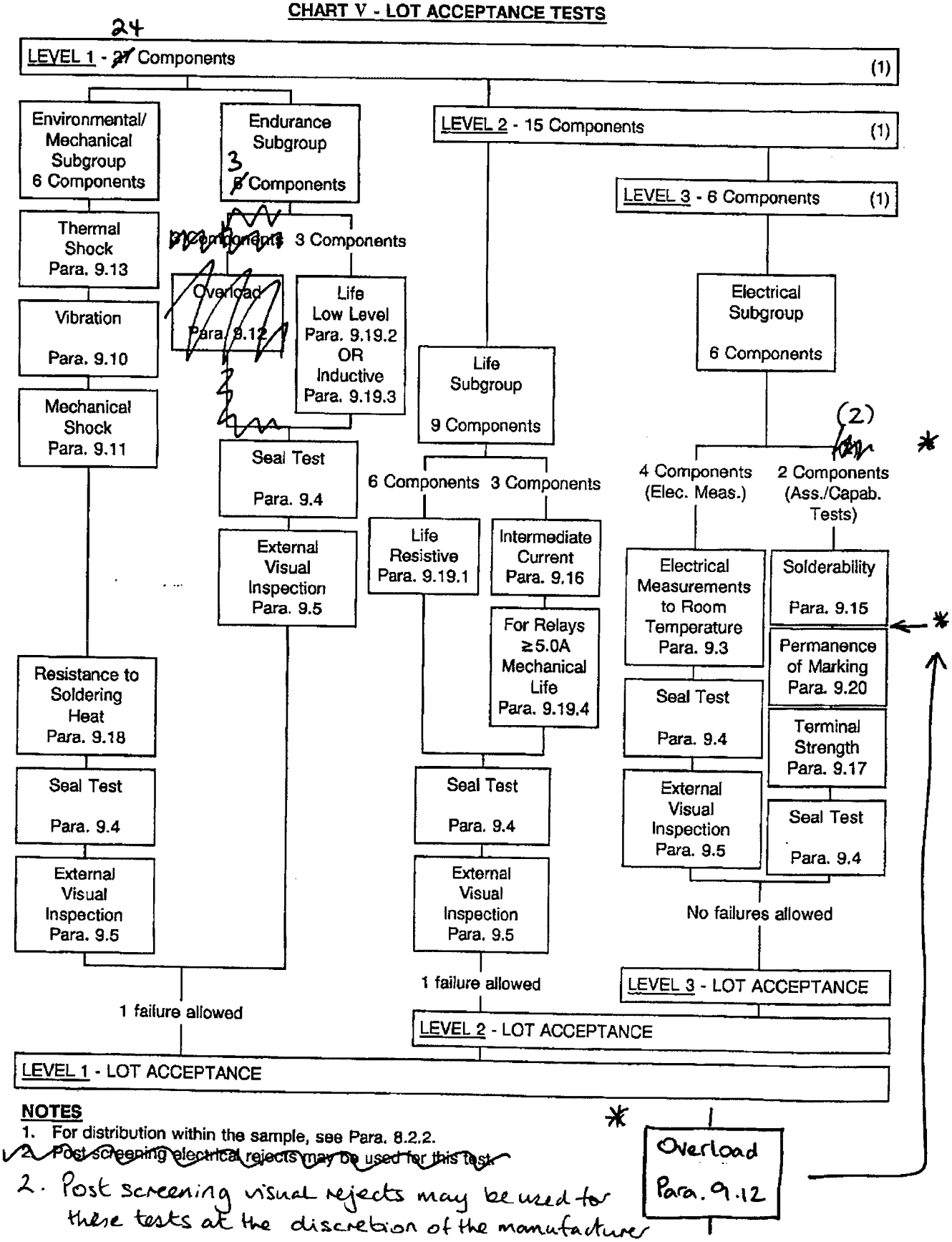
CHART V - LOT ACCEPTANCE TESTS



NOTES

1. For distribution within the sample, see Para. 8.2.2.
2. ~~Post screening electrical rejects may be used for this test.~~
2. Post screening visual rejects may be used for these tests at the discretion of the manufacturer