DOCUMENT CHANGE REQUEST

DCR number 240	Changes required for: General	Originator: Philippe Baviere
Date: 2006/02/23	Date sent: 2006/02/23	Organisation: CNES
Status: IMPLEMENTED		

Title:	Generic Specification for Electromechanical Switches		
Number:	3701	Issue:	1

Other documents affected:

Page:

Charts II and III
Para 9.11.4 page 27

Paragraph:

Charts II and III
Para 9.11.4 page 27

Original wording:

Proposed wording:

1- In Chart II, in the box Seal Test, add "Optinal". In Chart III, after tne box Electrical Measurements at Room Temperature, add a box "Seal Test"
2- In Chart III, before the box Electrical Measurements at Room Temperature, add a box "Operating Characteristics"
3- Para 9.11.4, Correct Table 2(b) instead of Table 1(b)

Justification:

1- The Seal Test shall be performed "after" the Run-in to verify the integrity of the delivered switches.
2- The mechanical measurements Table 2(b) may change during the Run-in, so they shall be verified after this test.
3- The measurements and limits are indicated in Table 2(b). Editorial error.

Attachments:
DCR240_Attachment_for_3701_29th_Nov_2006.pdf, null
Modifications:
See attached mark-up for full details of this DCR. A note 1 shall be added to Chart III against the new Seal test per Para. 9.6, for clarification purposes, as follows: "Note 1: Seal Test rejects not to be counted for lot failure." The reference for the new test "Operating Characteristics" in Chart III shall be: "Para. 9.3"
Approval signature:

Date signed:
2006-02-23

* MARK-UP CHANGES FOR DCR240
S. Thacker. 29/11/06.

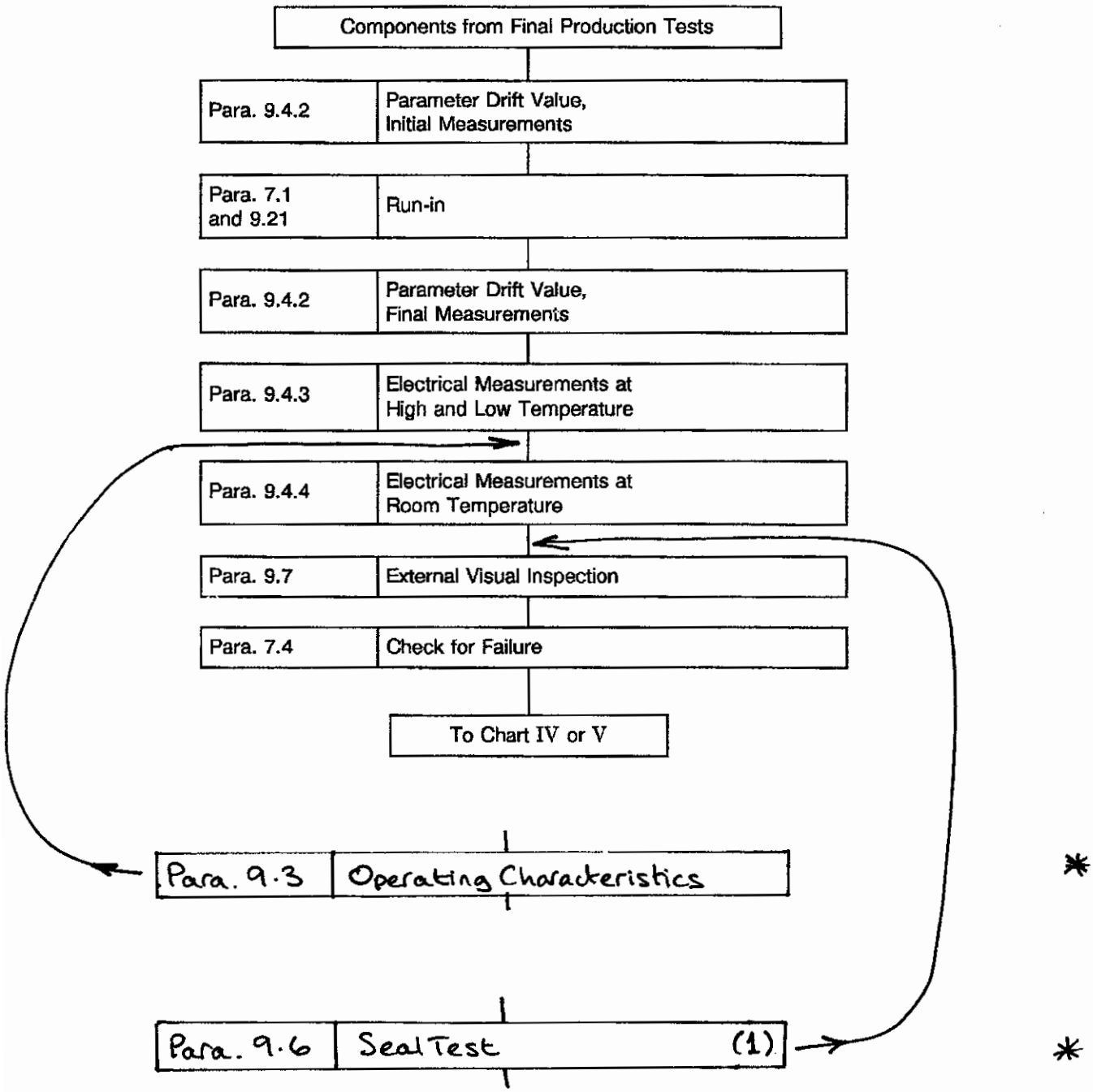
CHART II - FINAL PRODUCTION TESTS

Production and Controls in accordance with Section 5 of this specification	
Production up to encapsulation stage	
Para. 9.1	Internal (Pre-encapsulation) Visual Inspection
Para. 9.19	Final Assembly
Para. 4.4	Marking (plus Serialisation for Level 'B')
Para. 9.2	Functional Test
Para. 9.3	Operating Characteristics
Para. 9.4.4	Electrical Measurements at Room Temperature
Para. 9.5	Dimension Check (1)
Para. 9.6	Seal Test (Optional) *
Para. 9.7	External Visual Inspection (Inspection Level II, AQL 1%)
To Chart III	

NOTES

1. This test may take place at a different stage of the sequence.

CHART III - SCREENING AND ELECTRICAL MEASUREMENTS



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NOTES

1. Seal Test rejects not to be counted for lot-failure *

9.11.4 Travels and Forces (for Sensitive Switches)

The following characteristics shall be measured:-

(a) Actuation force.

(b) Release force.

(c) Pre-travel.

(d) Over-travel.

(e) Differential travel.

The point of application of the force applied shall be in the direction of the axis of the actuator. The limits are as specified in the Detail Specification (Table ~~1(b)~~ 2(b)).

9.12 DAMP HEAT

Before starting this test, the components shall be subjected to 10 cycles of the test defined in Para. 9.8. No measurements shall be made before or after this cycling.

9.12.1 Procedure

The samples shall be subjected to Test "Db" of IEC Publication No. 68-2-30 for 6 cycles of 24 hours at an upper temperature of +55°C. A DC voltage of 100V or V_N, whichever is less, shall be applied during the cycling between terminals and frame.

9.12.2 Final Inspection and Measurements

After not less than 4 or more than 24 hours, a voltage proof measurement shall be performed and the samples shall be visually examined for evidence of corrosion or obliteration of markings.

9.13 CURRENT CARRYING CAPABILITY

9.13.1 Procedure

The samples shall be placed in a test chamber according to the following requirements:-

(a) Overload in temperature: +20°C higher than the high operating temperature defined in Table 1(b) of the Detail Specification.

(b) After the temperature stabilisation of the samples, an overload DC current of twice the maximum rated current shall be applied during 10 minutes on a resistive load without switching operation.

9.13.2 Final Inspection and Measurements

After cooling down to room temperature, the functional test (Para. 9.2) and the contact resistance shall be performed. There shall be no welding, sticking or damage of contacts.