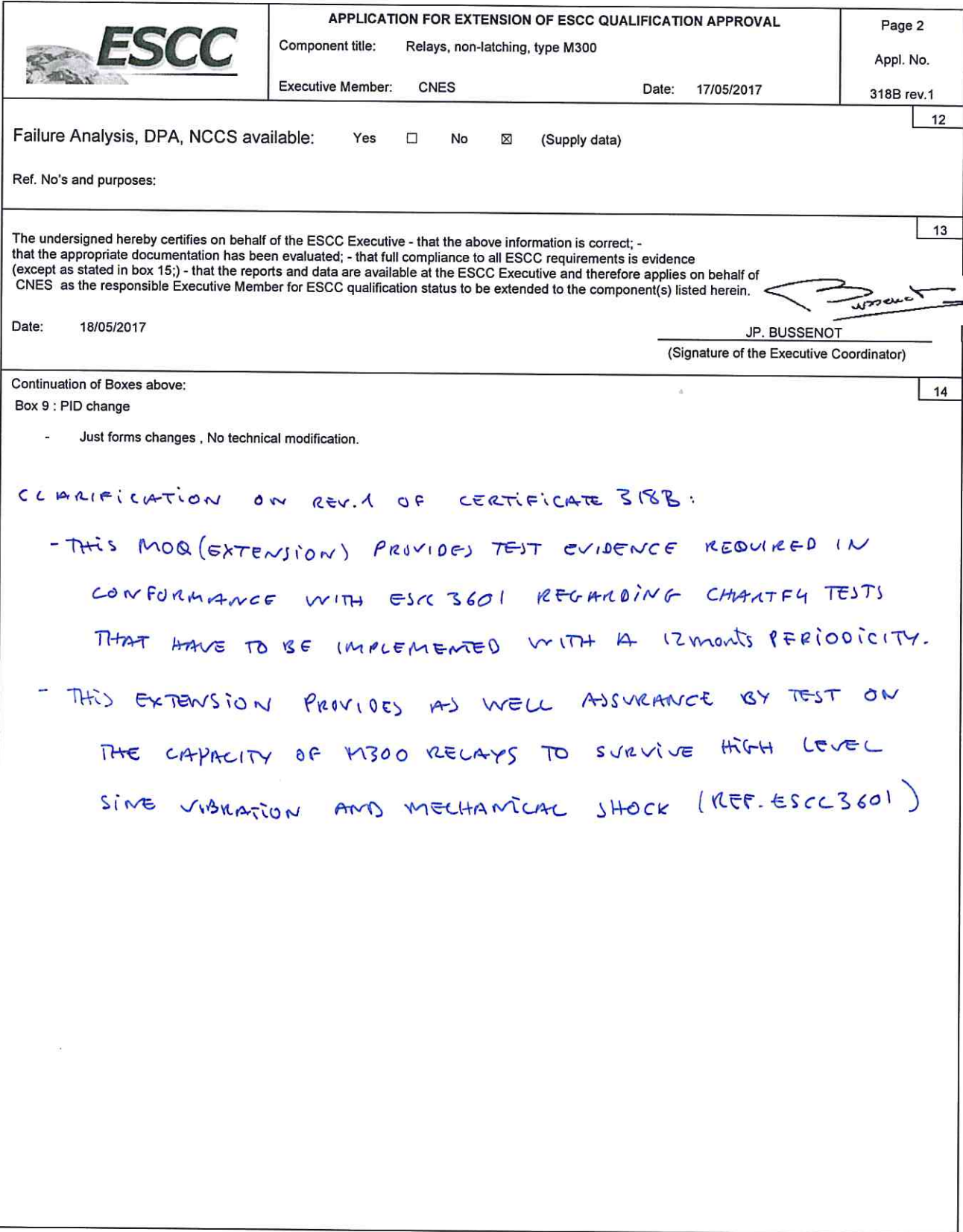

		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 318B rev.1
Component Title: Relays, non-latching, type M300		Executive Member: CNES		Date: 17/05/2017	
1					
Components (including series and families) submitted for Extension of Qualification Approval:					
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3601 007	03,04,06	Coil voltage : 12 and 28 Vdc	Type M300	3601 00704B 28V	All other variants in ESCC 3601 007
2		3		4	
Component Manufacturer Leach International Europe		Location of Manufacturing Plant(s) 2 rue Goethe 57430 SARRALBE		Date of original qualification approval: Date: 01/02/2014 Certificate Ref No. 318	
5		6		7	
ESCC Specifications used for Maintenance of qualification testing: Generic: 3601 Issue: 03/04 Detail(s): 3601 007 Issue: 04 <i>see box 16</i>		Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details)		Qualification Extension Report reference and date: RT_1168897, 17/03/2016 RT_1211780, 19/04/2017 RT_1197512, 20/03/2017	
8					
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
See Qual. Report Appendix 9					
9		10		11	
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box:		Current PID Verified by: CNES Name of Executive Representative Ref No: DR_1156613 2 Issue: 0 Date: 02/03/2016 Rev Date: 02/03/2016			
11					
Current Manufacturing facilities surveyed by: ESA & CNES on 22/10/2014 (Name of Executive Representative) 26-27/11/2010 (Date)					
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: TECQES-MIN2014-Leach01 ACS/LB/100201 + DCT/AQ/CQ-2010/8987					



	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL	Page 3
	Component title: Relays, non-latching, type M300	Appl. No.
	Executive Member: CNES	Date: 17/05/2017
		318B rev.1

Non compliance to ESCC requirements:
15

No.:	Specification	Paragraph	Non compliance
1	ESCC 3601		iss 3 used for qualification Though iss 4 exists.

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:
16

ESCC 3601 issue 4 is technically 100% equivalent to issue 3. The update of the spec up to issue 4 was only editorial (DCR 955)

Executive Manager Disposition
17


Application Approval: Yes ☒ No ☐


Action / Remarks:

DCR TO ESCC 3601/007 SHALL BE RAISED TO REMOVE FROM APP. A THE PREVIOUSLY AGREED DEVIATION RELATED TO HIGH LEVEL SINE VIBRATION AND MECHANICAL SHOCK.

ADDITIONAL ESCC SURVEY OF THIS PLANT IS SCHEDULED FOR W.22

Date:


 Signature, ESA Representative

	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Component Title: Relays, non-latching, type M300 Executive Member: CNES	Page 4 Appl. No. 318B rev.1				
ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION						
Tests conducted in compliance with: <ul style="list-style-type: none"> - ESCC 3601 generic specification; Chart F4 (for ESCC/QPL parts); - Or PID-TFD (for ESCC/QML parts) 						
Tests vehicle identification/description: <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 40%;">3601 007 04B 28V (15-21)</td> <td></td> </tr> <tr> <td>3601 007 04B 28V (16-31)</td> <td></td> </tr> </table>			3601 007 04B 28V (15-21)		3601 007 04B 28V (16-31)	
3601 007 04B 28V (15-21)						
3601 007 04B 28V (16-31)						
Detail Specification reference: 3601 007						

18

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Environmental / Mechanical Subgroup (Column 1)	Thermal Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 107	15-21	6	0	
	Low Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	15-21	6	0	
	Random Vibration	<input type="checkbox"/>	MIL-STD-202, Test Method 214	15-21			
	Low Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	15-21	6	0	
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 210	15-21	6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21	6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	15-21	6	0	
Environmental / Mechanical Subgroup (Column 2)	High Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	15-21	6	0	Test satisfactorily performed to remove deviation in ESCC 3601/007 appendix – DCR to come
	High Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	15-21	6	0	Test satisfactorily performed to remove deviation in ESCC 3601/007 appendix – DCR to come
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21	6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	15-21	6	0	
Endurance Subgroup 1 (Column 1)	Low Level Life	<input checked="" type="checkbox"/>	ESCC 3601 Para. 8.11.1	15-21	3	0	
	Inductive Life	<input checked="" type="checkbox"/>	ESCC 3601 Para. 8.11.2	15-21	3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	15-21	3	0	



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Relays, non-latching, type M300

Executive Member: CNES

Date: 17/05/2017

Page 5

Appl. No.

318B rev.1

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
Endurance Subgroup 1 (Column 2)	Coil Life	<input type="checkbox"/>	ESCC 3601 Para. 8.12				N/A
	Seal (Fine and Gross Leak)	<input type="checkbox"/>	MIL-STD-202, Test Method 112				
	External Visual Inspection	<input type="checkbox"/>	ESCC Basic Specification No. 20500				
Endurance Subgroup 1 (Column 3)	Intermediate Current	<input checked="" type="checkbox"/>	ESCC 3601 Para. 8.13	15-21	3	0	
	Mechanical Life	<input checked="" type="checkbox"/>	ESCC 3601 Para. 8.14	15-21	3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	15-21	3	0	
Endurance Subgroup 2	Resistive Life	<input checked="" type="checkbox"/>	ESCC 3601 Para. 8.11.3	15-21 , 16-31	12	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21 , 16-31	12	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	15-21, 16-31	12	0	
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 208	15-21, 16-31	12	0	
	Overload	<input checked="" type="checkbox"/>	ESCC 3601 Para. 8.16	15-21, 16-31	6	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC Basic Specification No. 24800				N/A
	Terminal Strength	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 211	15-21 , 16-31	6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21, 16-31	6	0	
Additional Tests	Electrical Measurements	<input checked="" type="checkbox"/>	ESCC 3602 para 9.3	15-21, 16-31	6	0	
	Seal (Fine and Gross leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	15-21 , 16-31	6	0	
		<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	15-21, 16-31	6	0	

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Page 7

Component title: Relays, non-latching, type M300

Appl. No.

Executive Member: CNES

Date: 17/05/2017

318B rev.1

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL**ENTRIES**

Form heading	shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
Box 1	shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
Box 2; 3 and 4	As per QPL entry; otherwise, an explanation of the changes must be supplied.
Box 5	Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
Box 6	Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
Box 7	Must reference the report(s) supplied in support of the application.
Box 8	Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
Box 9	If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
Box 10	Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
Box 11	This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
Box 12	Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
Box 13	Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
Box 14	To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
Box 15	Fill in Table as requested.
Box 16	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 17	All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
Box 18	Fill in Table as requested.
Box 19	Confidential Details of PID changes including those of a confidential nature, shall be provided.
Box 20	State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
Box 21	Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 22	Additional Comments.