
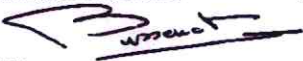
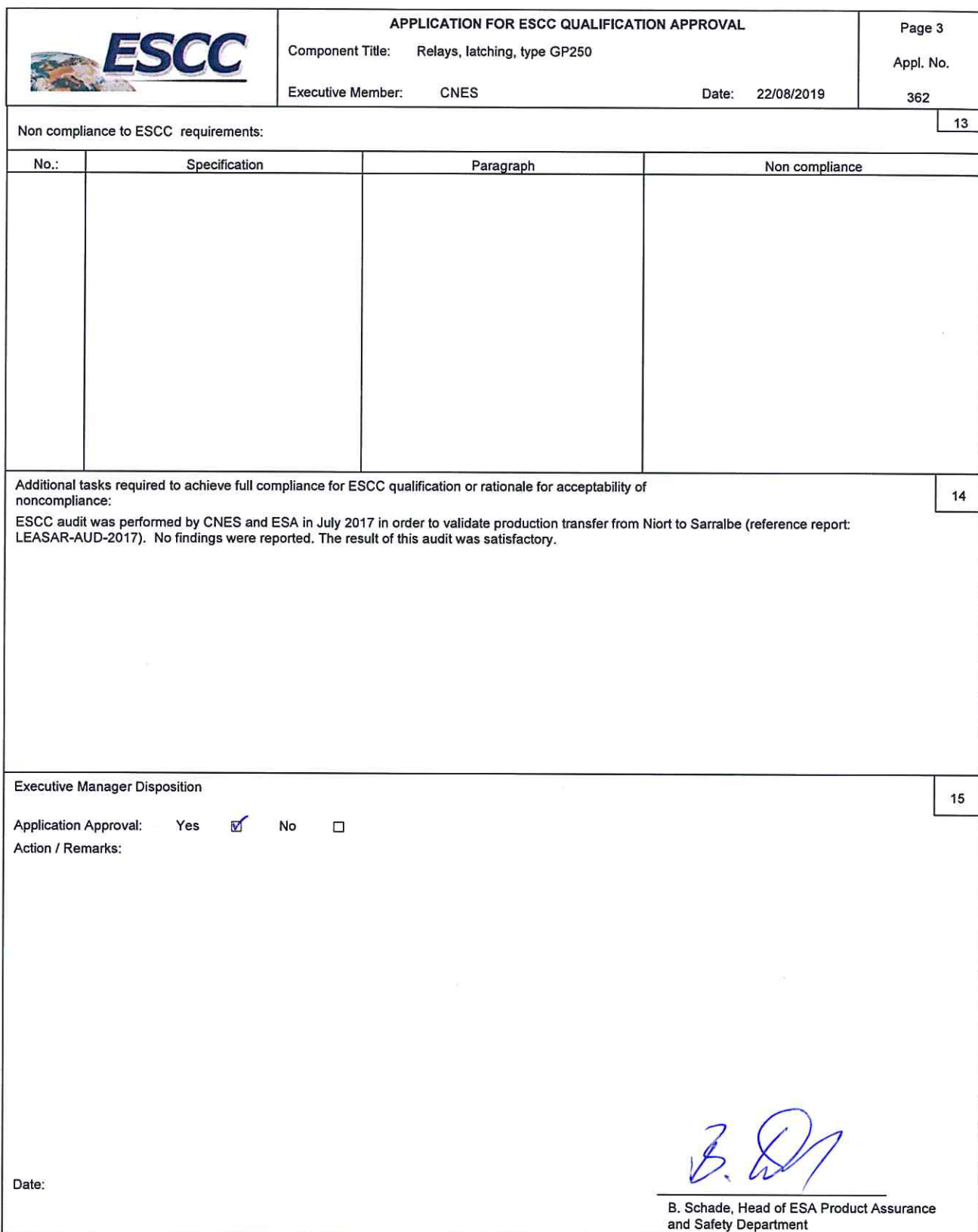

		APPLICATION FOR ESCC QUALIFICATION APPROVAL				Page 1	
		Component Title: Relays, latching, type GP250 Executive Member: CNES				Date: 22/08/2019 Appl. No. 362	
Components (including series and families) submitted for Qualification Approval						1	
ESCC COMPONENT. NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR		
3602 010	01, 02, 03, 04, 05 and 06	Coil Voltage : 12 and 26.5V	Type GP250	3602 010 01 12V 3602 010 02 12V 3602 010 04 12V 3602 010 01 26V 3602 010 02 26V 3602 010 03 26V	All variants		
Component Manufacturer LEACH International Europe		2	Location of Manufacturing Plant 2 rue Goethe 57430 Sarralbe		3	ESCC Specification used for Qualification Generic: 3602 Issue: 4 Detail/s: 3602/010 Issue: 6	4
Qualification Report Reference and date: RQ_1271670_2 Date: 21/08/2019			5	PID used for manufacturing Qualification Lot Ref No: DR_1163959 Issue: 3 Date: 27/06/2017			6
PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> (* Details not published, provided in confidential annex 2.)			7	Current PID Verified by CNES Name of Executive Representative Ref No: DR_1163959 Issue: 4 Date: 15/04/2019			8
Current Manufacturing facilities surveyed by: CNES (Name of Executive Responsible) 20190618_CRIM-LEACH							9
Report Reference Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain							
Quality and Reliability Data Evaluation testing performed Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Report Ref. No.: Date: Equivalent Data: Certification: Evaluation Testing in-progress, will be completed early in 2020. Relays construction did not change further to the Transfer from Niort site.				Failure analysis, DPA, NCCS available Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (supply data) Ref Nos. and purpose:			10

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<p>The undersigned hereby certifies on behalf of the ESCC Executive, that the above information is correct; that the appropriate documentation has been evaluated; that full compliance to all ESCC requirements is evidence except as stated in box 13; that the reports and data are available at the ESCC Executive and therefore applies for ESCC qualification status to be given to the component(s) listed herein.</p> <p>Date: 26/08/2019</p> <p align="right">  <u>JP BUSSENOI</u> (Signature of the Executive Coordinator) </p>		<p align="center">11</p>
<p>Continuation of Boxes above: (Only non-confidential comments)</p> <p>[10] The production and test of GP250 with the same design was previously qualified at a different production location, from February 1982 to February 2017, reference certificate of Qualification No. 93</p>		<p align="center">12</p>



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ANNEX 1: LIST OF TESTS DONE TO SUPPORT QUALIFICATION 16

Tests conducted in compliance with:

- ESCC 3602 generic specification; Chart F4 (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

3602 010 01 12V (Ref : GP250-150E00-12V-860 / DC : 19-17A)	3602 010 04 12V (Ref : GP250-150EHA-12V-860 / DC: 19-21A)
3602 010 02 12V (Ref : GP250-150EDB-12V-860 / DC : 19-22A)	3602 010 01 26V (Ref : GP250-720E00-26V-860 / DC: 19-17A)
3602 010 02 26V (Ref: GP250-720EDB-26V-860 / DC: 19-14A)	3602 010 03 26V (Ref: GP250-720FHA-26V-860 / DC: 19-21A)

Detail Specification reference: 3602/010

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	19-14A, 19-17A, 19-21A	18	0	
	Low Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	19-14A, 19-17A, 19-21A	18	0	
	Random Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 214	19-14A, 19-17A, 19-21A	18	0	
	Low Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	19-14A, 19-17A, 19-21A	18	0	
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 210	19-14A, 19-17A, 19-21A	18	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-14A, 19-17A, 19-21A	18	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	19-14A, 19-17A, 19-21A	18	0	
Environmental / Mechanical Subgroup (Column 2)	High Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	19-17A, 19-21A, 19-22A	18	0	
	High Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	19-17A, 19-21A, 19-22A	18	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-17A, 19-21A, 19-22A	18	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	19-17A, 19-21A, 19-22A	18	0	
Endurance Subgroup 1 (Column 1)	Low Level Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.11.1	19-17A	3	0	
	Inductive Life	<input type="checkbox"/>	ESCC 3602 Para. 8.11.2				Only applicable to relays with Rated Resistive Load Contact Current greater than or equal to 5A.
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-17A	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	19-17A	3	0	



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Component Title: Relays, latching, type GP250

Executive Member: CNES


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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 checked="" type="checkbox"/>	ESCC 3602 Para. 8.12	19-14A, 19-21A	12	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-14A, 19-21A	12	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	19-14A, 19-21A	12	0	
Endurance Subgroup 1 (Column 3)	Intermediate Current	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.13	19-17A	3	0	
	Mechanical Life	<input type="checkbox"/>	ESCC 3602 Para. 8.14				Only applicable to relays with Rated Resistive Load Contact Current greater than or equal to 5A.
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-17A	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	19-17A	3	0	
Endurance Subgroup 2	Resistive Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.11.3	19-17A	6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-17A	6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	19-17A	6	0	
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 208	19-17A	3	0	
	Overload	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.16	19-17A	3	0	
	Permanence of Marking	<input type="checkbox"/>	ESCC Basic Specification No. 24800				Not applicable for laser marking
	Terminal Strength	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 211	19-17A	3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	19-17A	3	0	
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					

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<p align="center">NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION APPROVAL</p>		
<p>ENTRIES</p>		
<p>Form Heading</p>	<p>shall indicate:— the title of the component as given in its detail specification or the name of the series or family; — the entering date; — the serial number and the suffix of the form.</p>	
<p>Box 1</p>	<p>shall provide details given in table; in particular there shall be listed - the variants or range of variants; the range of components by using the ESCC code for values tolerances, etc.; the designation given in detail specification as 'based on'; —under Test Vehicle enter either a cross or the specific characteristic capable to identify the component tested; — under component similar enter a cross.</p>	
<p>Box 2 and 3</p>	<p>Manufacturer's name and location of plant where the components were manufactured and tested.</p>	
<p>Box 4</p>	<p>Generic and detail specifications used during qualification program.</p>	
<p>Box 5</p>	<p>Reference to test report(s) submitted in support of application.</p>	
<p>Box 6</p>	<p>Enter details to identify the PID that was applicable at the time the qualification lot was manufactured.</p>	
<p>Box 7</p>	<p>If the PID was evolved after qualification lot manufacture, adequate details of such evolution shall be provided together with reasons for changes. Major changes shall be clearly marked.</p>	
<p>Box 8</p>	<p>The box serves to identify the current PID and the Executive Representative that has verified it together with the date of this occurrence.</p>	
<p>Box 9</p>	<p>This box can be completed only after a physical visit to the plant to confirm that the practices, procedures, materials, 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.</p>	
<p>Box 10</p>	<p>Details entered shall be sufficient to evidence that an evaluation program according to ESCC Basic Specification No. 22600 has been performed and that the results thereof are summarized in the survey and test reports. If the evaluation program has not been carried out according to established ESCC documents, the applicant Executive Representative shall provide alternative data and declare its assessed degree of satisfactory compliance with the ESCC basic requirements. Reference shall be made to the reports on Destructive Physical Analysis (DPA), Failure Analysis and Non conformance (NCCS) issued during the Evaluation and/or Qualification Phase.</p>	
<p>Box 11</p>	<p>Enter the name of the Executive Coordinator and the signature.</p>	
<p>Box 12</p>	<p>To be used when there is a need to expand any of the boxes from 1 through 10. Identify box affected and reference the Box 12 in the relevant Box. Box 12 can be broken into 12a, 12b, etc. if several Boxes have to be expanded.</p>	
<p>Box 13</p>	<p>Fill table as requested.</p>	
<p>Box 14</p>	<p>Fill in any additional tasks required to achieve full compliance.</p>	
<p>Box 15</p>	<p>All Executive recommendations on the application itself, special conditions or restrictions, modifications of the QPL or ESCC QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 15, signed by the ESA Representative.</p>	
<p>Box 16</p>	<p>Fill in Table as requested.</p>	
<p>Box 17</p>	<p>Confidential details of PID changes shall be provided.</p>	
<p>Box 18</p>	<p>State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 18 each nonconformance shall be sequentially numbered. If relevant state 'None'</p>	
<p>Box 19</p>	<p>Any additional action deemed necessary by the Executive Representative 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 nonconformance.</p>	
<p>Box 20</p>	<p>Additional Comments</p>	