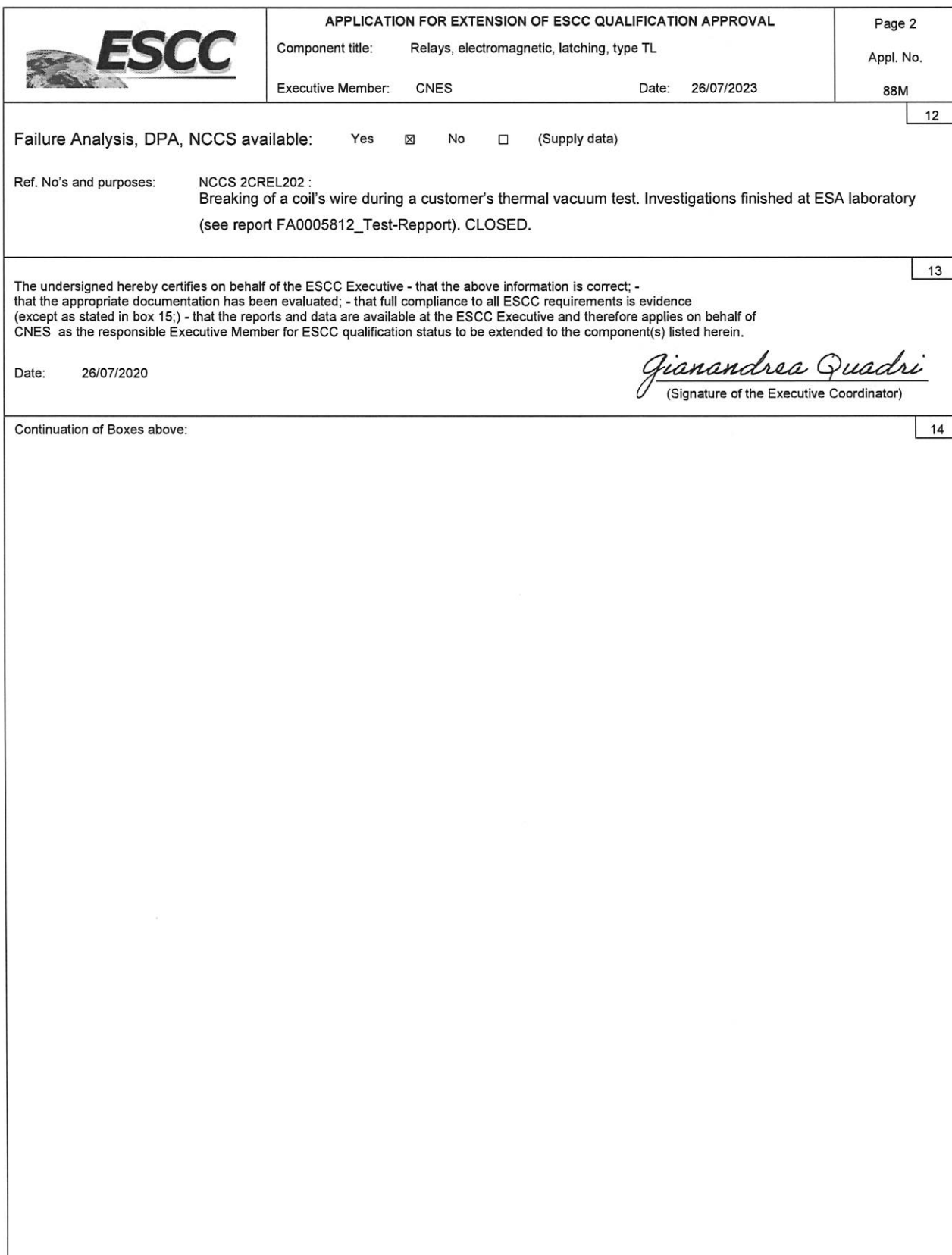
		APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL			Page 1 Appl. No. 88M
Component Title: Relays, electromagnetic, latching, type TL		Executive Member: CNES			Date: 26/07/2023
Components (including series and families) submitted for Extension of Qualification Approval:					1
ESCC COMPONENT NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3602 002	01 to 06	Rated coil Voltage	TL relays	ESCC 3602 002 01 12V	All variants
				ESCC 3602 002 01 26V	
Component Manufacturer REL-STPI		2	Location of Manufacturing Plant(s) 22 Rue des Chaises 45 140 Saint Jean de la Ruelle - France		3
			Date of original qualification approval: Date: 01/01/1982 Certificate Ref No. 88		4
ESCC Specifications used for Maintenance of qualification testing: Generic: 3602 Issue: 4 Detail(s): 3602/002 Issue: 4		5	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)		6
			Qualification Extension Report reference and date: Report 3765.12.21, 26/08/2022, See also Report 01.03.22, 19/10/2022 for qualification of new base supplier, Report 3734.03.21, 29/03/2021		7
Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first)					8
Project Name	Testing Level	LAT	Date code	Quantity Delivered	
Data livraisons T & TL SCC - MAJ 19092022.xlsx				2020 : 2095 2021 : 4989 2022 : 4886	
PID changes since start of qualification None <input type="checkbox"/> Minor* <input type="checkbox"/> Major* <input checked="" type="checkbox"/> *Provide details in box:		9	Current PID Verified by: L. Fontaine CNES Name of Executive Representative Ref No: PID TL – IND Z Issue: Z Rev Date: 20/03/2023		10
		19			
Current Manufacturing facilities surveyed by: L. Fontaine, CNES on 22/11/2022 (Name of Executive Representative) (Date)					11
Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain					
Report Reference: 2022.0017036-CR-Fontaine-Visite -REL-STPI-Novembre-2022					





APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Relays, electromagnetic, latching, type TL

Executive Member: CNES

Date: 26/07/2023

Page 3

Appl. No.

88M

Non compliance to ESCC requirements:

15

No.:	Specification	Paragraph	Non compliance

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

16

Executive Manager Disposition


17

Application Approval: Yes ☒ No ☐

Action / Remarks:

Date:

B. Schade, Head of the Product Assurance
and Safety Department

	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL	Page 4
Component Title: Relays, electromagnetic, latching, type TL		Appl. No.
Executive Member: CNES		Date: 26/07/2023
		88M

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION 18

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:

ESCC 3602 002 01 26V (TL 26 F70), DC 21-06	ESCC 3602 002 01 26V(TL 26 F70 NN), DC 22-36
ESCC 3602 002 01 12V (TL12 F70), DC 21-42	

Detail Specification reference: 3602/002

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	21-42 22-36	6 6	0	
	Low Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	21-42 22-36	6 6	0	
	Random Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 214	21-42 22-36	6 6	0	
	Low Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	21-42	6	0	
	Resistance to Soldering Heat	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 210	21-42	6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	21-42	6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	21-42	6	0	
Environmental / Mechanical Subgroup (Column 2)	High Level Sine Vibration	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 204	21-42 22-36	6 6		
	High Level Mechanical Shock	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 213	21-42	6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	21-42	6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	21-42	6	0	
Endurance Subgroup 1 (Column 1)	Low Level Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.11.1	21-42	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 type="checkbox"/>	MIL-STD-202, Test Method 112	-	-	-	
	External Visual Inspection	<input type="checkbox"/>	ESCC Basic Specification No. 20500	-	-	-	



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: Relays, electromagnetic, latching, type TL

Executive Member: CNES

Date: 26/07/2023

Page 5

Appl. No.

88M

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 3602 Para. 8.12	-	-	-	Coil life and subsequent tests shall only be performed for Qualification. They are not required for Periodic Testing except in the case of any significant change to the design
	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 3602 Para. 8.13	21-42	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	21-42	3	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	21-42	3	0	
Endurance Subgroup 2	Resistive Life	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.11.3	21-42 21-06	6 6	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	21-42 21-06	6 6	0	
	External Visual Inspection	<input checked="" type="checkbox"/>	ESCC Basic Specification No. 20500	21-42 21-06	6 6	0	
Assembly Capability Subgroup	Solderability	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 208	21-42 22-36	3 5	0	
	Overload	<input checked="" type="checkbox"/>	ESCC 3602 Para. 8.16	21-42	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	21-42 22-36	3 3	0	
	Seal (Fine and Gross Leak)	<input checked="" type="checkbox"/>	MIL-STD-202, Test Method 112	21-42 22-36	3 3	0	
Additional Tests		<input type="checkbox"/>					
		<input type="checkbox"/>					
		<input type="checkbox"/>					

**APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL**

Component title: Relays, electromagnetic, latching, type TL

Executive Member: CNES

Date: 26/07/2023

Page 7

Appl. No.

88M

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.