	APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL Page 1										
E	SCC	Component Title: R	elays, electroma	gnetic, non-lato	hing, ty	vpe TL		Appl. N	0.		
		Executive Member:	CNES	Date: 17/07/2020				88L			
Components (includir	ng series and families)	submitted for Extension	of Qualification	Approval:					1		
ESCC COMPONENT NO.	VARIANTS	RANGE OF COM	RANGE OF COMPONENTS BASED ON			TEST VEHICLE / S	COMPONEN SIMILAR	Т			
3602 002	01 to 06	Rated coil Voltage		TL relays		SCC 3602 002 01 26V	All v	ariants			
							Ì				
Component Ma	anufacturer 2	Location of Mar	nufacturing Plant	(s) 3					4		
REL-STPI		22 Rue des Chaises	nulaotuning Fiant	(3) 0	Date	of original qualification ap	oprova	l:	<u> </u>		
		45 140 Saint Jean de	e la Ruelle - Fran	ce	Date:	01/01/1982					
					Certit	ficate Ref No. 88					
	5	;		6					7		
ESCC Specifications Maintenance of qualit		Deviations to LVT ter used:	Deviations to LVT testing and Detail Specification				Qualification Extension Report reference and date:				
Generic: 3602	Issue: 4	No ⊠ Yes □ (supply details in Box 15)			Report 3687.01.20, 27/05/2020, Report 3633.10.18, 30/10/2018						
Detail(s): 3602/00	2 Issue: 3	Deviation from curre	Deviation from current Specifications:			See also Report 3607.03.18 Ind.A, 18/07/2018 for qualification of new coil wire brazing material,					
		No 🛛 Yes						indicinal,			
									8		
Summary of procurer Project Name	ment or equivalent test Testing Level		esults during current validity period in support of this ap			n (those to ESCC listed f Quantity		ared			
Data livraisons T & T SCC - MAJ		E.G.				Quanty	Donve				
29052020.xlsx Customer: TAS	TL 26 F7011	Chart F4 Endurand				49					
		Assembly Capabili Tests	ty								
VOQ ESCC	TL 26 F70	Chart F4 Periodic Tests	19-48			27					
PID changes since st	art of qualification	9	Current PID V	erified by:		Mr Leny Baczkowski ,Cl			10		
None □ Minor* □			Ref No: F	PID TL – IND X		ame of Agency Represent	tative				
Major* 🖂	*Provide details in bo	x:	Issue:	ĸ		Date:		15/01/2019			
				19/11/2018					11		
Current Manufacturin	g facilities surveyed b		B. Marty, CNES S. Hernandez, D. Lacombe, ESA			14	/09/20	16			
	(Name of Agency Representative) (Date)										
Satisfactory:	Yes 🛛	No 🗆 Exp	olain								
Report Reference:	ESCC-AUD-REL	.F2016									

	APPLICAT	Page 2				
ESCC	Component title:	Relays, elect	romagnetic, non-latching	g, type TL		Appl. No.
	Executive Member:	CNES		Date:	17/07/2020	88L
	1					12
Failure Analysis, DPA, NCCS av	ailable: Yes	🛛 No	□ (Supply data)			
Ref. No's and purposes: NCCS 2CS 2019 (appe	STPI501 (coil wire disso ended)	olution), new coi	l wire brazing material ir	mplemented	d from DC 19-05, NCCS	closed in May
The undersigned hereby certifies on behal that the appropriate documentation has be (except as stated in box 15;) - that the rep CNES as the responsible Executive Mem	en evaluated; - that ful orts and data are availa	I compliance to a able at the ESCO	all ESCC requirements i C Executive and therefor	is evidence re applies c	on behalf of	13 Wither c
Date: 17/07/2020					JP. BUSSENO	Г
				(Sigr	nature of the Executive C	Coordinator)
Continuation of Boxes above:						14
L						

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL							
and a	ESCC	Component	title: Relays, electromagnetic, non-latch	ing, type TL	Appl. No.		
		Executive M	lember: CNES	Date: 17/07/2020	88L		
News		I			15		
	pliance to ESCC requirements:						
No.:	Specification 3602 issue 4		Paragraph Chart F2	Non compliance Chart F2 Thermal Shock replaced			
	0002 15505 4			Monitored Thermal Cycles with co resistance measurements.	ntinuous coil		
noncomp	liance:		ESCC qualification or rationale for acceptability		16		
Executive	e Manager Disposition				17		
Applicatic		No 🗆		S.H & Digitally s by Britta S Date: 2020	igned Schade 0.08.28		
Date:				B. Schade: Head of the Product and Safety Departm	t Assurance		

	APPLICATIO	Page 4						
ESCC	Component Title:	ent Title: Relays, electromagnetic, non-latching, type TL			Appl. No.			
	Executive Member:	CNES	Date:	17/07/2020	88L			
ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION								
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:								

SCC 3602 002 01 26V , lot 1517615, DC 19-48	MoQ
SCC 3602 002 01 26V , lot 1122925, SCC 3602 002 01 26V, lot 1179896,	Qualification of new coil wire brazing material in 2018
SCC 3602 002 01 26V, lot 1253761, DC 18-36	LVT
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
	Thermal Shock		MIL-STD-202, Test Method 107	19-48 1179896	6 6	0	
bgroup	Low Level Sine Vibration		MIL-STD-202, Test Method 204	19-48 1179896	6 6	0	
Environmental / Mechanical Subgroup (Column 1)	Random Vibration	X	MIL-STD-202, Test Method 214	19-48	6	0	
l / Mechani (Column 1)	Low Level Mechanical Shock		MIL-STD-202, Test Method 213	19-48 1179896	6 6	0	
iental / (Co	Resistance to Soldering Heat		MIL-STD-202, Test Method 210	19-48 1179896	6 6	0	
nvironm	Seal (Fine and Gross Leak)		MIL-STD-202, Test Method 112	19-48 1179896	6 6	0	
Ш	External Visual Inspection		ESCC Basic Specification No. 20500	19-48 1179896	6 6	0	
dn	High Level Sine Vibration		MIL-STD-202, Test Method 204	19-48 1179896	6 6	0	
ental / Subgro n 2)	High Level Mechanical Shock		MIL-STD-202, Test Method 213	19-48 1179896	6 6	0	
Environmental / Mechanical Subgroup (Column 2)	Seal (Fine and Gross Leak)		MIL-STD-202, Test Method 112	19-48 1179896	6 6	0	
Med	External Visual Inspection	×	ESCC Basic Specification No. 20500	19-48 1179896	6 6	0	
1 1	Low Level Life	\boxtimes	ESCC 3602 Para. 8.11.1	19-48 1122925	3 6	0	
Endurance Subgroup 1 (Column 1)	Inductive Life		ESCC 3602 Para. 8.11.2				
Irance Subgi (Column 1)	Seal (Fine and Gross Leak)	\boxtimes	MIL-STD-202, Test Method 112	19-48 1122925	3 6	0	
Endu	External Visual Inspection		ESCC Basic Specification No. 20500	19-48 1122925	3 6	0	

	ESCC	Co	APPLICATION FOR	EXTENSION O			N APPROVAL	Page 5
Pro-	ESUL	_			,			Appl. No.
		E>	ecutive Member: CNES	S		Date:	17/07/2020	88L
Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if no Comments on	
6 - C	Coil Life	\boxtimes	ESCC 3602 Para. 8.12	1122925	6	0		
Endurance Subgroup 1 (Column 2)	Seal (Fine and Gross Leak)		MIL-STD-202, Test Method 112	1122925	6	0		
Enc Sub (Co	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	1122925	6	0		
dnc	Intermediate Current	\boxtimes	ESCC 3602 Para. 8.13	19-48 1122925	3 6	0		
Subgro nn 3)	Mechanical Life		ESCC 3602 Para. 8.14					
ance ((Colur	Seal (Fine and Gross Leak)	\boxtimes	MIL-STD-202, Test Method 112	19-48 1122925	3 6	0		
Endurance Subgroup 1 (Column 3)	External Visual Inspection		ESCC Basic Specification No. 20500	19-48 1122925	3 6	0		
Endurance Subgroup 2	Resistive Life		ESCC 3602 Para. 8.11.3	19-48 18-36 1122925	6 6 6	0		
	Seal (Fine and Gross Leak)	\boxtimes	MIL-STD-202, Test Method 112	19-48 18-36 1122925	6 6 6	0		
Endura	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	19-48 18-36 1122925	6 6	0		
	Solderability		MIL-STD-202, Test Method 208	19-48 18-36	3 3	0		
ability	Overload	\boxtimes	ESCC 3602 Para. 8.16	19-48 18-36	3 3	0		
Assembly Capability Subgroup	Permanence of Marking		ESCC Basic Specification No. 24800				Not applicable for la	ser marking
Asser	Terminal Strength	\boxtimes	MIL-STD-202, Test Method 211	19-48 18-36	3 3	0		
	Seal (Fine and Gross Leak)	\boxtimes	MIL-STD-202, Test Method 112	19-48 18-36	3 3	0		
onal ts	Internal Vapor Analysis	\boxtimes	ORS MEL-1053	1122925 1179896	6 2	0	Post various endura Post Thermal Shoc	
Additional Tests								
4								

						D 7			
	Comp	onent title:		etic, non-latching, type		Page 7			
E						Appl. No.			
	Execu	itive Member:	CNES	Date	: 17/07/2020	88L			
NOTE	S ON THE COMPLETION	OF THE APPL	ICATION FORM FOR	ESCC QUALIFICATIO	ON EXTENSION APPROVA	L			
ENTRIES Form heading	shall indicate: - the title of - the entering date; - the c				of the series, family; - the Ex	ecutive Member;			
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; otherwi	se, an explana	ation of the changes mu	st be supplied.					
Box 5					revision letter, current at th late of the application, see B				
Box 6		ted in Box 15.	In case the referenced	specification in Box 5 h	particular deviations from to ave currently a different issu				
Box 7	Must reference the report	(s) supplied in	support of the application	on.					
Box 8					l of which should already hav opriate table has been draw				
Box 9	If the PID evolved after th be provided together with				ation, adequate details of suc marked.	ch evolution shall			
Box 10	Identify the current PID i arranged as close as pos				of verification of the currer	nt PID should be			
Box 11	practices, procedures, ma	terial, etc. used	d in manufacturing the c	omponents are as des	unexplained changes occur cribed in the PID. This surve ts findings shall be recorded	y shall be carried			
Box 12					d Failure Analysis reports established corrective actio				
Box 13	Enter only the name of t Coordinator.	he Executive I	Member (i.e., CNES, D	LR, ESTEC, etc.) and	the signature of the respo	onsible Executive			
Box 14	To be used when there is the relevant Box. Box 14 o				tify box affected and referer expanded.	nce the Box 14 in			
Box 15	Fill in Table as requested.								
Box 16	Any additional action dee by the ESCC Executive sl				itted data to a standard likel pliance.	y to be accepted			
Box 17					restrictions, modifications of e representative for ESA, and				
Box 18	Fill in Table as requested								
Box 19	Confidential Details of PI) changes inclu	uding those of a confide	ntial nature, shall be p	rovided.				
Box 20	State noncompliance with shall be sequentially num			ragraph(s). To simplify	reference in Box 16 each	nonconformance			
Box 21	Any additional action dee by the ESCC Executive sl				itted data to a standard likel pliance.	y to be accepted			
Box 22	Additional Comments.								