APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: WIRES AND CABLES, LOW FREQUENCY, POLYIMIDE INSULATION, BASED ON TYPES 1871 - 1872

Executive Member: CNES Date: 13/05/2020

Appl. No. 09S

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Components (including series and families) submitted for Extension of Qualification Approval:

ESCC COMP. NO.	VARIANTS	RANGE OF COMPONENTS	BASED ON	TEST VEHICLE / S	COMPONENT SIMILAR
3901 001	24 to 47	Characteristics: Medium weight 1871 - n/1871 - 871 (3901/001) Variants 24 to 47 are qualified.	1871	Click here to enter text.	
3901 002	31 to 73	Light weight 1872 - n/1872 - 872 (3901/002) Variants 31 to 73 are qualified.	1872	3901 - 002 - 38 B1	3901 001
		Voltage Rating, maximum (Vrms):600 Temperature Range (°C): -100 to +200			

2 Component Manufacturer

NEXANS

3 Location of Manufacturing Plant

140-146, rue Eugène Delacroix
(B.P. 1) 91211 Draveil
France

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Date of original qualification approval:
Date: 01/01/1979

Certificate Ref No. 09

5

ESCC Specifications used for Maintenance of qualification testing:

Generic: 3901 Iss.3

Detail(s): 3901/001 Iss.2
3901/002 Iss.2

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Deviations to LVT testing and Detail Specification used:

No ☒ Yes ☐ (supply details in Box 15)

Deviation from current Specifications:

No ☒ Yes ☐ (Supply details)

7

Qualification Extension Report reference and date:

LQ N° 1020/20 du 31/01/20

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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 Appendix				

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PID changes since start of qualification

None ☐
Minor* ☒
Major* ☐ *Provide detail
See appendix 3

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Current **PID** Verified by: CNES
Name of Agency Representative

Ref No: MPL-FRDR-011
Issue: 08 Date: 13/05/2020
Rev Date: 01/04/2020

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Current Manufacturing facilities surveyed by: CNES. on 13/06/2018
(Name of Agency Representative) (Date)

Satisfactory: Yes ☒ No ☐ Explain No visit in 2020 due to COVID Lockdown, last visit in 2018 CR-Nexans-13-6-2018

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Failure Analysis, DPA, NCCS available: Yes ☐ No ☒ (Supply data) Click here to enter text.

Ref. No's and purposes: Click here to enter text.

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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 15; - that the reports and data are available at the ESCC Executive and therefore applies on behalf of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 18/05/2020

JP. BUSSENOT

((Signature of the Executive Coordinator)

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Continuation of Boxes above:

BOX9: Several minor modifications in the PID :

Update of raw material procurement specifications
Update of the organigram.
Update of internal Nexans fabrication and control sheets.

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Noncompliance to ESCC requirements:

No.:	Specification	Paragraph	Non compliance
1	ESCC 3901 issue 3	9.17 Cold bend test	Test made at -75°C in place of -80°C

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

ESCC qualification looks acceptable because The non compliance looks minor. The probability of a faillure which would appear at -80°C and not at -75°C looks very low. This test was made at -75°C because NEXANS cold chamber is too old and does not work well. This test will be done again within a few monthes (with a new cold chamber)

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Executive Manager Disposition

Application Approval: Yes ☒ No ☐

Action / Remarks:

Digitally signed by Britta Schade
Date: 2020.06.08 09:23:53 +02'00'

Date:

B. Schade: Head of ESA Product Assurance and Safety Department

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 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	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 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 entry, letters to the manufacturer, etc. shall be entered clearly in Box 17, signed by the representative for ESA, and dated.