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GORE NewSpace
GORE Traditional Space Portfolio

GORE for over 50+ years has provided NASA and ESA for launch and flight projects with Grade/Class 1 and TRL status 6+ Cable and RF Assemblies
GORE NewSpace

- Traditional NewSpace
- Revolution
- Evolution
- Heritage
- MEO
- GEO
- LEO
- Private Sector Ventures
- Deep Space
GORE NewSpace Products
Technical Readiness Level

TRL 9
TRL 8
TRL 7
TRL 6
TRL 5
TRL 4
TRL 3
TRL 2
TRL 1

TRL 8 System complete and "flight qualified" through test and demonstration

TRL 7 System prototype demonstration in a space environment

TRL 6 System/subsystem model or prototype demonstrated in a relevant environment
5.2 Other Part Types

Parts that do not fall into one of the preceding categories listed in paragraph 5.1 shall be reviewed on a case-by-case basis using the closest NASA, DSCC or government controlled specification as a baseline. The review shall ensure that parts meet the reliability requirements of in intended space flight application and shall cover the selection, screening, qualification and applicable derating. In the event a suitable government baseline specification does not exist, the user shall approach the project parts engineer to identify the parts expert who can provide information on the best available industry standards to develop procurement specifications that meet the reliability goals.

6.0 INSTRUCTIONS

EEE parts shall be processed in accordance with the detailed requirements for the applicable part types and quality levels specified in Sections C1 through W1. Each section contains selection, screening, qualification, and derating tables. All tests shall be performed in the order shown unless otherwise approved by the project. Exceptions or additions to the requirements specified in any section shall be defined in the project MARA document. Applicable part quality levels shall be as defined by the project. The MARA defines selection, screening, derating, and project requirements.

Level 2: Parts shall be selected and processed to this level for missions with 'low to moderate risk, balanced by cost constraints' and mission objectives. Level 2 active parts shall be reviewed for radiation hardness, and radiation testing is required when information is not available. The typical mission duration for level 2 programs varies from 1 to 5 years.
ECSS-Q-ST-60-13C
Annex G Class 3
Space product assurance for commercial electrical, electronic and electromechanical (EEE) components

LIMITED Evaluation
- Construction analysis
- Radiation evaluation (TID, SEE)

LIMITED Screening
- PIND test (if applicable)
- Hermeticity (if applicable)

LIMITED Lot Test
- Construction analysis
- Hermeticity (if applicable)

DATA COLLECTED
(lifetest, HAST, thermal cycling)
used for lot test reduction

Limited Evaluation
Minimized Data
Limited Screening
Limited Lot Test
Technology Pathway Forward

Harmonizing efforts between the private sector and NASA / ESA / JAXA

GORE has developed a EEE-INST-002 Level 2 / ECSS-Q-ST-60 Class 3 Portfolio for NewSpace & Launcher Systems

GORE Yellow Jacket
NASA EEE-INST-002 Grade 2
ECSS-Q-ST-60-13c Class 3
Technical Readiness Level 6+
Thank You

GORE NewSpace & Launcher Systems Portfolio with Yellow Jacket
EEE-INST-002 Level 2 / ECSS-Q-ST-60-13C Class 3

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