

1. SCOPE OF THE EPPL

The inclusion of components in the EPPL indicates that they:

- are capable of satisfying a wide range of design applications;
- are known in their technology and show potential for use in flight-standard hardware;
- have a significant chance of being utilized for current and future programmes;
- are available from sources for which there is evidence that they are capable of providing products of the required quality.

2. MAIN SELECTION RULES

Preference is given to those components that are available:

- in both packaged and surface mount versions;
- for both engineering model and flight hardware;
- without any restriction (Export License or equivalent).

Moreover, preference is given to European suppliers. In the case that an European component is not available, the non-European component is listed.

Preference is given to components for which a second source is available.

Components selected for inclusion in the EPPL have been subjected to standardization and, for example, reduction of type variants, values, packages, sizes, application range.

Components selected for inclusion in the EPPL are from suppliers whose product lines have been certified by the executive of the Space Components Steering Board (SCSB) or by an accredited third party authority.

3. EPPL REQUIREMENTS

3.1 INCLUSION OF COMPONENTS

Proposals for parts selection in the EPPL can be made by European National Space Agencies, Space Industries and users, and European and non-European manufacturers using the Entry Application Form (EAF) available in the EPPL Homepage and explained in detail in the relevant section of ESCC 12300.

The following requirements are applicable to the components selection for the evaluations of the EAFs:

3.1.1 EPPL PART I

Components included in Part I of the EPPL can be used without any special provision, on the condition they meet the application requirements.

Provided that the above selection criteria are met, the Part I components shall be selected from:

- a. components included in recognized QPLs issued by:
 - ESCC
 - U.S. Defense Supply Center, Columbus -- MIL (class S, ER level R)
 - NASDA (class S, ER level R)
 - b. components belonging to QML, class V;
 - c. components included in NASA NPSL, level 1;
 - d. components that have been evaluated successfully according to ESCC, ECSS-Q-60 or equivalent requirements for which a recognized procurement specification is available.
- These components can be considered eligible for EPPL Part I provided that the Evaluation data by which they are supported are not older than two years at the date of the publication of the EPPL.

3.1.2 EPPL PART II

Part II components complement Part I components and ensure improved coverage of future programme requirements. In general, additional effort is necessary to satisfy specific programme requirements. The selection of components is based on available data resulting from evaluation demonstrating capability to satisfy space application requirements. The components in EPPL Part II are not to be intended as a second source for similar types already listed in Part I.

Provided that the main selection rules are met, the Part II components shall be selected from:

- a. components included in recognized QPLs issued by:
 - U.S. Defense Supply Center, Columbus -- MIL (level B, JANTXV, ER level P)
 - CECC Register of Approvals
 - NASDA (level B, ER level P)
- b. components belonging to QML, class Q;
- c. components included in NASA NPSL, levels 2 and 3;
- d. components that have been evaluated in a space project or in other applications, where at least minimum data are available, e.g.:
 - constructional analysis
 - electrical characterization
 - life test results
 - mechanical data (for electromechanical components, only)
 - radiation test data (for sensitive components only)

The above data can also be partially available, provided that the existing ones are sufficient to cover the requirements indicated in a., b. and c. for the particular family of components.

These components can be considered eligible for EPPL Part II provided that the Evaluation data by which they are supported are not older than two years at the date of the publication of the EPPL.

e. components where manufacturer's data are available, e.g.:

- qualification data
- process (SPC) data, life test/reliability/field data and line certification.

These components can be considered eligible for EPPL Part II provided that the test data by which they are supported are not older than two years at the date of the publication of the EPPL.

The availability of only one of the above types of data can be sufficient to consider the components compliant with the requirements for EPPL Part II.

3.2 REMOVAL OF COMPONENTS

Proposals for removal of components from the EPPL can be made by European National Space Agencies, Space Industries and users, and European and non-European manufacturers using the Removal Application Form (RAF) available in the EPPL Homepage and explained in detail in the relevant section of ESCC 12300.

A component type may be removed from the EPPL for any of the following reasons:

- the component has become obsolete;
- sources are no longer available;
- the type has been replaced by a functionally similar but improved component;
- inherent reliability/quality problems have been experienced and not resolved;
- the component has ceased to meet the requirements for Part I or Part II indicated in Paragraph 5.2 and 5.3 of ESCC 12300;
- the component can be replaced by a similar one covering the same characteristics and quality requirements (parts reduction).

4. DESCRIPTION OF THE INFORMATION FLOW

- Proposals for selection or removal in the EPPL shall be made using an Entry Application Form (EAF) or a Removal Application Form (RAF) as described in ESCC 12300 paragraph 9.4.
- The submission of a proposal for selection or removal may be made at any time.
- Proposed selection or removal shall be processed by the assigned EPPL Manager.
- The EPPL Manager shall review the EAFs or the RAFs, applying the selection or removal criteria, and performing any standardization and type reduction

necessary.

- For each component type which is not qualified to a recognized system, the EPPL Manager shall obtain sufficient supporting documentation (e.g. test data) to properly evaluate the acceptability of the component. This documentation can be reduced to a summary test report (indicating the kind of test performed, the applied specification or standard, the measured electrical parameters, the applied conditions, the quantity in/out), provided that the proposer can commit to make it available under specific request to the EPPL Manager.
- All new component types proposed, which are not qualified, shall be selected in line with the technological programme and general policy established by the CTB.
- All records, including correspondence, complete questionnaires, draft documents and minutes of meeting generated and received in the course of the contract, are designated as the property of SCSB and shall be stored by the EPPL Manager in a way that prevents degradation and facilitates ready retrieval.