1. (normative)  
   Technical budget - DRD
   1. DRD identification
      1. Requirement identification and source document

This DRD is called from ECSS-E-ST-10, requirement 5.4.1.2a.

* + 1. Purpose and objective

The technical budget defines for each key engineering parameter of a system or product, the nature of this parameter, its measure, specified value, metrics requirements and current actual or computed value and assessed value.

The technical budget is part of the Design Definition File (as defined in ECSS-E-ST-10 Annex G). It is the basic document for providing adequate control of the key engineering parameter properties to meet the system or product technical requirements.

* 1. Expected response
     1. Scope and content

Introduction

The technical budget shall contain a description of the purpose, objective, content and the reason prompting its preparation.

Applicable and reference documents

The technical budget shall list the applicable and reference documents in support to the generation of the document.

List of selected key engineering parameters

The technical budget shall:

list the selected key engineering parameters (those specified by the customer and those selected by the supplier),

present the reason for their selection,

identify for each key engineering parameters the stages of maturity of the design.

present the related margin policy for these parameters.

1. to item 1: Examples of key engineering parameters are mass, communication links, power, and on-board computer memory capacity.

Assessment of key engineering parameters

For each key engineering parameter, the technical budget shall:

provide the specified value of the parameter,

provide the supplier’s margin resulting of the allocation of the parameter to the lower level products,

provide the specified values with the reference to the relevant technical requirement of the lower level products,

propose a specific program to conform to the specified value in case of nonconformance,

contain a chart of parameter history that presents the evolution of the parameter’s value at the different design maturity steps for which the evaluation of the parameter is performed,

list the documentation sources (e.g. analysis report and verification report).

Conclusion

The technical budget shall contain a conclusion that identifies the key engineering parameters having a negative margin, and identify for each of those:

the impact on the technical requirements and the associated risk for the project, and

the specific program to conform to the specified value and for project risk mitigation.

* + 1. Special remarks

None.