

Product Assurance and Quality Assurance Program for a space system

Objective

As part of a major European space program, we were a part of
Phase 1: monitoring of outsourcing means test on 8 platforms specific test - Monitoring electrical tests and functional characterization of the model (on 4 platforms)
Phase 2: Monitoring the treatment of non-conformities - Organization and monitor actions journals contract with ESA

Our Approach

Quality management platform dedicated to testing activities and qualification system

- Capitalization of equipment data banks and soils (non-compliance, exemption, changes)
- Acceptance facilities edges and soil resources
- Validation plans / procedures and test results
- Control of electrical tests and functional
- Journals campaigns qualification test

No initial configuration management and fault management.

Lobbying bodies to introduce a technical solution and conduct the transition

Tool management embryonic abnormalities become knowledge base management technical fact



Results

Journals contractual records of treatment of non-compliance / exceptions
Indicators of non-compliance of contractual coverage journals

Operational quality program on a space transport system

Objective

- (1): Quality monitoring of providers performing test facilities and flight software
- (2): Quality in a project database program. This database contains the information necessary platforms for testing and flight parameters

Our Approach

1): Participation in journals ->verification of compliance by subcontractors of development rules of test facilities -> recipe platform equipment supplied.

(2): Process Definition:
embodiment of the database ->terms of qualification of production tools and data management.
data management of this base supply, configuration management

Difficulty: demonstration of the consistency of data from the reference project development, management of change in multi-users.



Results

(1)Means testing accepted platforms testing

(2)Obtaining the qualification plan base -> presentation of all payer
Improving the process of data delivery to users -> checklists; commissions changes; configuration and data processing tools. ...

Quality program for space transportation system

Objective

- (1): Quality monitoring for test facilities and flight software
- (2): Quality in a project database program. This database contains the information necessary to test platforms and flight parameters

Our Approach

1): Participation in journals -> verification of compliance by subcontractors of development rules of test facilities -> recipe platform equipment supplied.

(2): Process Definition:
- Preparation of the database -> terms of qualification of production tools and data management.
data management of this base supply, configuration management
Difficulty / originality:



Results

Obtained the qualification plan base
Improved the process of data delivery to users
->checklists; commissions changes; configuration and data processing tools. ..

PA/QA Manager Support

Objective

Support activities to ensure the quality of all systems, products (or equipment), and services under the responsibility of the customer.

The main mission of project is to obtain the recognition necessary to be viewed by customer as one of the best provider of Space Quality.

Our Approach

To implement and improve the internal Quality Management System (QMS) of customer:

to contribute to customer positioning at optimum quality level
to ensure that each product and test equipment, is developed, manufactured, tested and stored with respect to requirements.



Tools and Methods

Tools:

MS Office

TAS-I software

Methods:

Statistical Process Control

MIL and ECSS procedure

Quality system and software platform qualifying program flight gear

Objective

Mission: to participate in the structuring of the project (OT, logic documentary) and the establishment of quality.

The challenge: to achieve acceptance by key decision makers, an innovative structure compared to that adopted a similar platform.

Our Approach

-An assessment was conducted in relation to the first platform has helped to highlight the problems and limitations of its structure. This feedback has led to propose a more innovative and responsive to the complexity of the platform project.

- There was initially very reluctant to adopt this new structure.

-ALTRAN could make its system expertise in project organization, in addition to his expertise in quality management.



Results

The developments during the project development platform have been integrated more easily, given the modularity restraint, despite a fluctuating state of need.