A Contractors View
On TDP Management

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The Aerospace and Defense Industry Standard(s)

AS 9100 (Subordinately ISO 9001) this is our collective STD

- **AS9100** is largely the standardized quality management system for the aerospace and defense industry.

- AS9100 fully incorporates the entirety of the current version of ISO 9000, while adding requirements relating to quality, risk management, and safety.

**What is the required related to management of design**

- 2009 Revision C specifically addresses the need for design verification, validation, and reliability determination.

- 2016 Revision D specifically addresses the need for clarity as it relates to configuration management, to include the elements of obsolescence and diminishing resources.

TDP *management and objectives are defined here*
Tenants specific to TDP(s), and design against the STD

PSEC verses supplied TDP

• Whomever owns the design owns configuration management.

• Whomever owns the design owns product performance, to include design driven reliability, and necessary performance envelopes associated with design limit trade study.

• Configuration owns obsolescence that would impede ones ability to meet quality constraints, timely delivery or product performance.

This is the STDs definition of responsibility
TDP references and controls, by example, where the STD(s) are not met

- Interface controls by example: a Titanium part tolerance that doesn’t take into consideration exterior coatings. ICD
- Reliability constraints required single source supply, surface area of Class 5 RDX/HMX, Ammunition Primers. Old Specs, COTS use
- Drawings or specifications which do not make reference to the necessary process controls, the key constraint, or measurable element(s) that provide for reliability, consistency and performance. Missing Key controls
- Continued use of archaic STDs, processes and methods. Obsolescence
- Trade study not completed and where complaint parts in the amalgam do not meet performance requirements. Design validity
- Drawings and or specifications that do not identify the features that ensure reliability or technical compliance. Design Reliability
- Drawings and or Specifications which do not provide for known and necessary departure from stated constraints. Lack of Technical Definition

TDP management must be met in order to deliver promised result
Means to Referee TDP changes and ownership of IP

- PSPEC
- VECP
- ECP
- Contractor Process or their subcontractors constraints that address elements in slide 4
- RFD/RFV, contract paper

*IP ownership and responsibilities are defined by TDP, however there needs to be clear contractual IP ownership when coming to improvement, and methodologies*
Objectives

• Reductions in REAs
• Schedule compliance
• Affordability
• Reliability Increases
• Variability Reduction
• Soldier appreciation

Objectives met provide for Soldier confidence whether in training or in combat
Solutions

• Clear TDP ownership lines, to include changes

• Regular competent review of TDPs

• Through reviews when maturing from development to production, or interagency transfer

• When necessary provide a means of responsible referee.

Ownership accountability meets expectations