Monthly Newsletter: JUL 2025

In This Issue

Our Mission

CDS AQS provides a total business management solution for small to mid-sized companies by establishing quality and business management systems, providing employee training and development and optimizing company processes and systems to increase profitability and efficiency.

Our Motto

Partnering with small to mid-sized companies to reduce customer risk and increase profitability by optimizing internal processes via risk identification, variation management and human capital investment.

Our Goal

Our goal is to take your company data and turn it into action via system solutions tailored specifically to your company's needs. These system solutions will then allow you to better utilize both human and equipment resources.

32 CFR 170 and 48 CFR 240 Part 4: Impact on Supply Chains and Contracts and Compliance Strategies for Aerospace Companies

Impact on Supply Chains

Aerospace companies heavily rely on **multi-tiered supply chains**, making compliance with **32 CFR 170 and 48 CFR 240** more complex.

Key Challenges:

- **Third-Party Risk** – Subcontractors must also comply with new security standards.
- **Increased Procurement Scrutiny** – More stringent **vendor risk assessments** are required.
- **Potential Contract Delays** – Failure to meet compliance deadlines can lead to procurement roadblocks.

Compliance Strategies:

- Establish **supplier compliance verification programs**.
- Require **contractual cybersecurity commitments** from vendors.
- Conduct **continuous risk assessments** of supply chain partners.

Compliance Strategies for Aerospace Companies

Navigating these new regulations requires a **structured compliance approach** to minimize risks and maintain federal contract eligibility.

Actionable Compliance Steps:

1. **Gap Analysis** – Identify compliance weaknesses by benchmarking current practices against **32 CFR 170 and 48 CFR 240**.
2. **Develop a Compliance Roadmap** – Create an implementation timeline prioritizing high-risk areas.
3. **Invest in Employee Training** – Educate staff on security clearance procedures, insider threat awareness, and cybersecurity best practices.
4. **Upgrade IT Infrastructure** – Strengthen encryption, network monitoring, and access controls.
5. **Implement a Compliance Management System (CMS)** – Automate compliance tracking and reporting.

Having issues with CFRs?
Let CDS Advanced Quality Solutions help!

PPAPs PPLA (#8)

The Packaging, Preservation, and Labeling Approvals element of IAQG PPAP is all about ensuring the safe handling, storage, and transportation of aerospace parts and products.

Packaging: This involves deciding how the product should be packed so it doesn't get damaged during shipping or storage. It's like choosing the right box and padding for fragile items when sending them in the mail.

Preservation: This step makes sure the product stays in good condition. For example, it might include using protective coatings, sealing parts against moisture, or keeping them at the correct temperature.

Labeling: Products need to be clearly marked with labels that show important information, like what the product is, how to handle it, and any safety warnings. Think of it as a "name tag" and "care instructions" for the product.

Approvals are needed to confirm that all these measures meet the required standards, so everyone involved in the supply chain knows how to handle the product properly. It ensures the product stays safe and functional until it reaches the customer.

Having issues with PPAPs?
Let CDS Advanced Quality Solutions Help!

APQP (Part 5)

Phase 4 – Product and process validation - the customer validates the product and the manufacturing process. During the significant production run, the multidisciplinary team should ensure that the process control documents, such as the Process Flow Diagram, PFMEA, Control Plan, and Operator Instructions are being followed.

Activities	Deliverables	Outputs
• Conduct a First Article Inspection (FAI) and assemble Production Part Approval Process (PPAP) file • Completion of a production product run(s) • Conduct a capacity analysis • Collect data to demonstrate the manufacturing and assembly processes can produce conforming product at the customer demand rate • Conduct the MSA per the MSA Plan • Review the results of production process runs and determine corrective actions, as needed • Subsequent to corrective actions being implemented, determine process readiness for entry into serial production	• **Product from production process run(s)** • **MSA*** • **Initial process capability studies*** • **Control plan*** • **Capacity verification** • **Product validation results** • **First Article Inspection Report (FAIR)*** • **PPAP file and approval form*** • **Customer specific requirements***	• Product conforms to Specified Requirements • Completion & Approval of PPAP • Completion of FAI, Applicable Activities/Deliverables

"**Bold**" text indicates requirements defined in this standard. *PPAP Req.

Do you need help with APQP?
Let CDS Advanced Quality Solutions help!

PPAP's SPC (#7)

Initial capability studies in the IAQG PPAP process are like a test drive for your production process to see how well it's performing before full-scale production begins.

What It's About: These studies check if the manufacturing process is consistent and produces parts that meet the required specifications. Think of it as ensuring the assembly line is reliable right from the start.

How It's Done:
• A sample batch of parts is produced using the finalized process.
• The measurements of key features (called "critical characteristics") are taken from this sample.
• These measurements are analyzed to see how much the results vary and whether they stay within the acceptable limits.

The Goal: To confirm that the process can consistently make good parts without defects or out-of-spec results. If the process isn't capable enough, adjustments are made before moving to mass production.

In short, it's about proving that the process works well and can be trusted to deliver quality every time. Let me know if you'd like an example or further details!

Need help with PPAPs?
Let CDS Advanced Quality Solutions Help!

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Do you have topics you would like to see?
Do you have the need for trainings?
CDS AQS is here to help you!

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