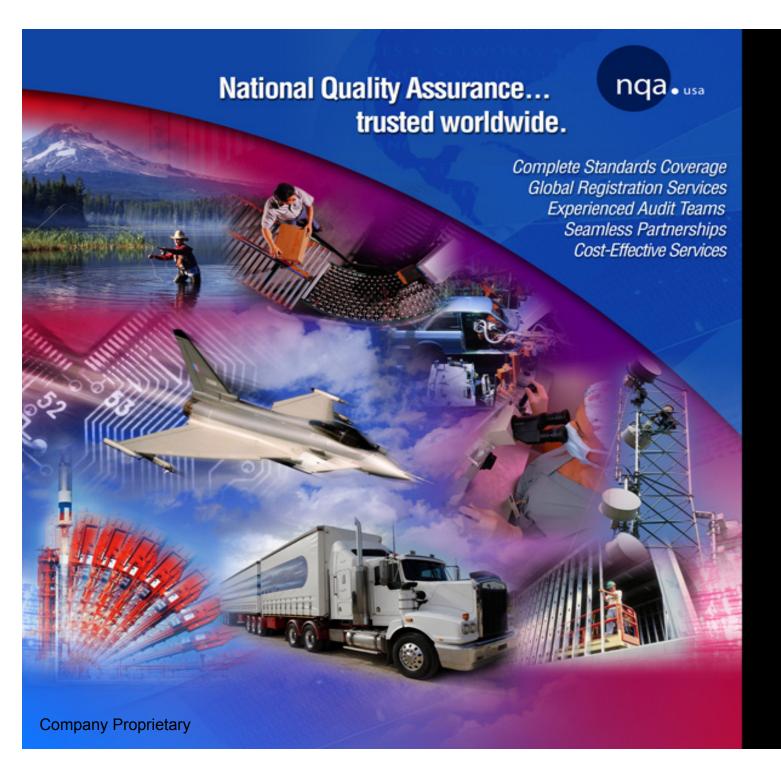


NASA – Supply Chain 2012





Registration
Services to these
Standards:

ISO 9001:2008

TS 16949

AS9100

AS9110

AS9120

TL 9000

ISO14001

OHSAS 18000

ISO13485

ESD 20.20

PS-Prep

ISO 27000

ISO 20000

ISO 22000



- 9100c Transition
- Future of AS9100
- o Industry Issues & Trends
 - Business Continuity
 - Security In the Supply Chain
 - QMS Controls In the Supply Chain
- Emerging Policies Impacting QMS
 - Sequestration & Lean QMS



• • AS9100c Transition

Challenge

- Transition 15,000 Companies Worldwide
- Upgrade Global Aerospace Auditor Skill sets
- Company Focus on Process Effectiveness

Current Results

- AATT Auditor Training & Testing (~600 Auditors)
- Organization 'Transition Guidance' to Assist Stakeholders with Transition
- 95% of Global Organizations on Track to Meet 1/1/13 Deadline
 - 5 NASA Centers Transitioned
 - Most all of the Space Industry Suppliers
- Increasing Understanding of the Process Effectiveness (PEARs)
- Increased Awareness of Risk Focus With QMS Processes
 - Still a ways to go

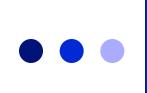


• • • Future of AS9100

AS9100 Evolution

- Reason For Change
 - Standards Revision Every 5 Years (~2015)
 - Keep Aligned with ISO 9001 Changes (ECD 2015)
 - Ensure Standard Keeps Pace with Industry Needs
- Pace Of Change
 - ~3 Years to Complete & Globally Harmonize
 - Opportunity to Influence
 - Survey out ~3-5 Months



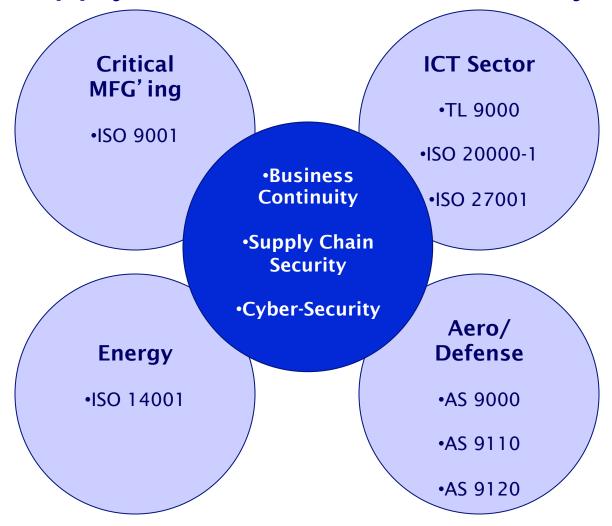


Industry Issues & Trends Supply Chain Resilience Ecosystem

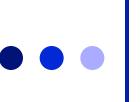
- QMS has Historically Focused on Meeting
 Customer Needs thru Product Process Integrity
- Additional Challenges Emerging in Customer Supplier Value Stream
 - Continuity & Security
- New Standards Progressing to Supplement the Traditional QMS Base Standards



Industry Issues & Trends Supply Chain Resilience Ecosystem







Dept. Homeland Security PS-Prep

- o Business Continuity/Supply Chain Resilience
 - Dept of Homeland Defense Driven Security
 Initiative Outcome of 9/11 Commission
 - Address government-driven topics of risk, security and business continuity
 - Leverage existing industry positions
 - DHS Sponsored Certification to PS-Prep through ANAB/Certification Body Infratstructure



Critical Infrastructure Sectors



Agriculture and Food



Banking and Finance



Chemical



Commercial Facilities



Communications



Critical Manufacturing



Dams



<u>Defense Industrial</u> Base



Emergency Services



Energy



Government Facilities



Healthcare and Public Health



Information Technology



National Monuments and Icons



Nuclear Reactors, Materials and Waste



Postal and Shipping

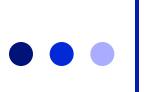


Transportation Systems



Water





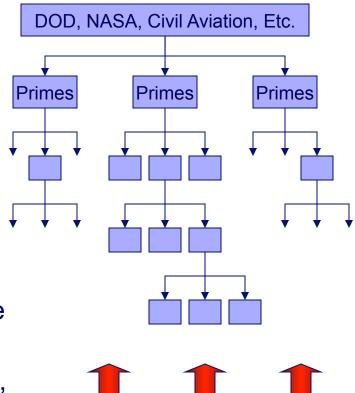
Sector Specific Plans (SSP's)



- o Each CIKR (Critical Infrastructure & Key Resources) has DHS Sponsored Planning **Document**
- o Provides Insight to Industry Unique Characteristics and Risk Landscapes
- Creates Focus For Continuity and Resilience Efforts



Industry TrendsSupply Chain Security -



Threats

Challenge

- Product & Service Threats Entering the Supply Chain
- Counterfeit, Intellectual Property, ITAR, Loss Management, etc.

Solutions

- ISO 27000 (Information Security)
- ISO 28000 (Supply Chain Security)
- AS5553/AS6081 (Counterfeit Parts)



• • Industry Trends

- Enhanced QMS Controls in Supply Chain
 - Challenge
 - Control of an Ever Extending Supply Chain
 - Solutions
 - Supply Chain Risk Control
 - Subtier Supplier Control
 - Specific Product Process Areas of Focus
 - Notification of Design Change, PPAP, etc.
 - Counterfeit Parts



Industry Challenges - QMS Adequacy During Lean Budgets -

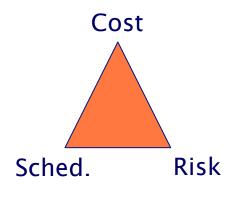


Challenge

- Future Outlook for Declining Government Spending
- Maintaining an Effective QMS in a Lean **Environment**

Areas of Focus

- More with Less (More with No More)
 - Can Put Pressure on Decisions Points Within QMS
- Maintaining Appropriate Balance Within QMS Structure
 - Justifiable Risk -vs- Risk Mitigation
 - Inspection, V&V, IV&V, Etc.
 - Insight -vs- Oversight
 - Maintain Focus On People Competencies







Competency

Decisions

• • In Closing

- Evolving Industry Business Models Ever Changing
- Driving Evolution in Management Systems
 - Quality
 - Safety
 - Security
 - Continuity
- Organizations Must Focus on New Challenges and Adapt Their Management Systems to Remain Robust & Viable.

