



Quality System Overview



ISO Registration & Corporate Requirements

Governance



Risk Management

Mitigation



Supplier Quality

Performance



Inspection

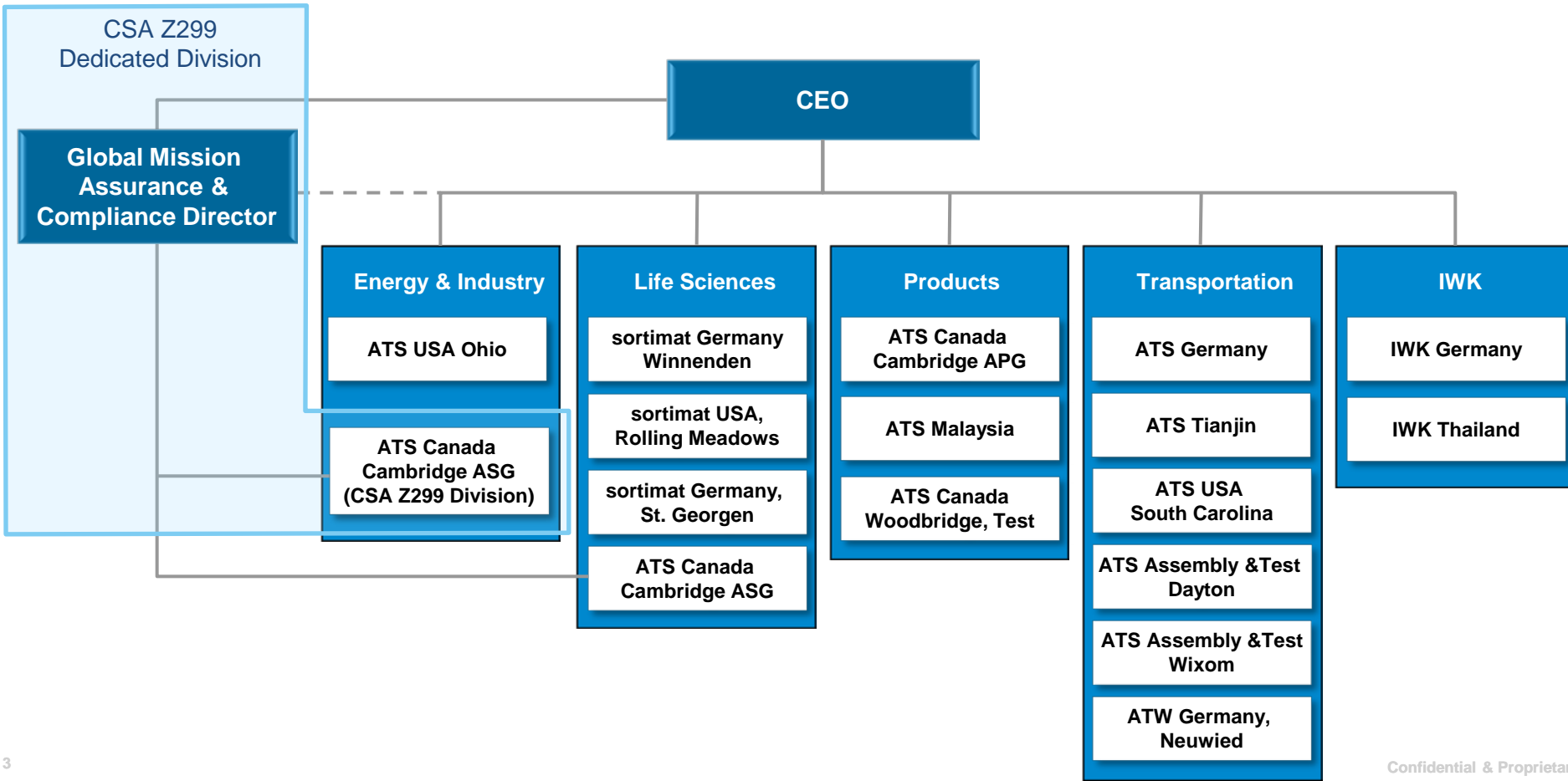
Verification



Quality Assurance : Project QE

Compliance

ATS Organizational Quality Structure

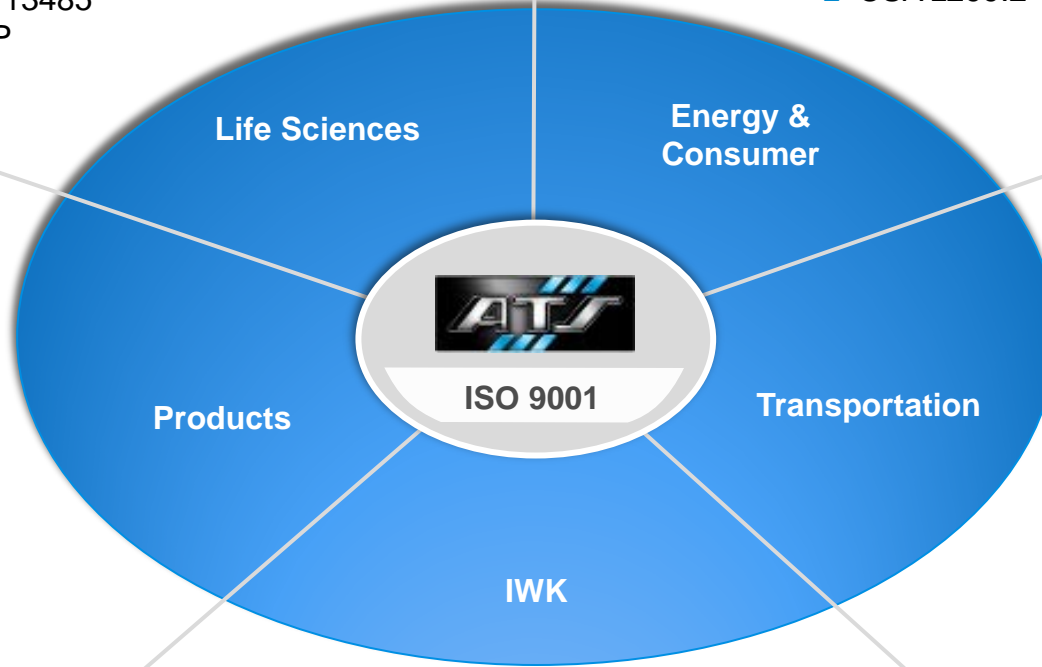


ATS Organizational Quality Structure

- ISO 13485
- GMP

- CWB 47.1
- CSA B51
- CSA z299.2

- CSA N285
- CSA N286
- C of A – PEO



- ISO 13485
- GMP

- VDA & ISO 14001 (Neuwied)
- NQA
- 10 CFR 20
- 10 CFR 50

- ISO 9001

- Third party quality system registration with global appointment (BSI)
 - On line QMS System accessible globally
- Standardized common quality processes in Canada, US, Asia & Europe
- Continual Improvement
 - Common QMS structure
 - Corporate Quality Assessments
 - Global Metrics



NON-APPLICABLE ITEMS, ISO 13485:2003(E)

The following sections of the ISO 13485:2003 standard are not applicable to the scope of registration:

- 7.5.1.2.1 (a) and (b).....Cleanliness of product and contamination control
- 7.5.1.2.2.....Installation activities
- 7.5.1.3 / 7.5.2.2Particular requirements for sterile medical devices
- 7.5.3.2.2 / 8.2.4.2.....Particular requirements for active implantable medical devices and implantable medical devices

- **Justification for exclusion of specified sections:** ATS is a supplier to the medical device industry and is not a medical device manufacturer. ATS does not have any customer or regulatory obligations to support contamination control, installation, service activities, requirements to support particular requirements for sterile medical devices or for the validation of particular requirements for active implantable medical devices and implantable medical devices therefore, clauses 7.5.1.2.1, 7.5.1.2.2, 7.5.1.3 / 7.5.2.2, 7.5.3.2.2, 8.2.4.2 under the ISO 13485 standard are not applicable.

ATS has established risk management throughout the project life cycle.

■ Proposal & Project Management Phase

- Concept Technical Risk Assessment
- Regulatory
- URS
- Defined Responsibilities
- Risk Register

■ Concept & Design Phase

- Concept Technical Risk Assessment
- Failure Mode Effect & Analysis
- Safety Risk Assessment
- Proof of Principle (POP)
- Industry accepted standards and codes

■ Procurement Phase

- Supplier approvals
- Supplier audits
- Incoming inspection
- Supplier performance monitoring
- Defined procedures for identifying and isolating non-conforming product.

■ Build & Integration Phase

- Manufacturing review process
- Compliance
- Project Risk Management Process
- Build Safety Risk Assessment
- Project Risk Register

■ Close Phase

- Functional testing is completed in 3 phases
 - Internal Pre FAT
 - Factory Acceptance Testing
 - Site Acceptance Testing

■ GMP Equipment Qualification Phase (as required by contract)

- Installation Qualification (IQ)
- Operational Qualification (OQ)
- Traceability Matrix

■ Supplier Development

- Global Approval Process
- Global Supplier Manual
- Global Supplier Assessment Process
- Global Key Supplier Scorecards

■ Quality Systems

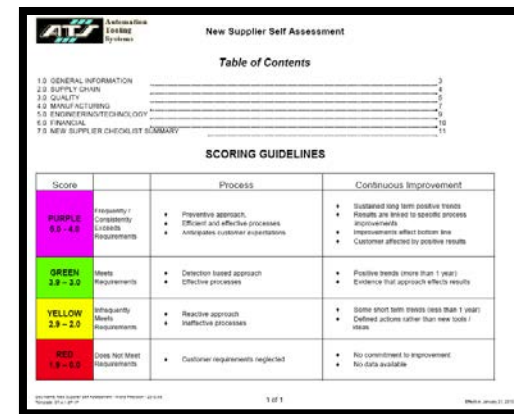
- Global Business and Quality Management Systems
 - Microsoft Impact Award recipient for best business solution
- Global metrics with common KPI's submitted monthly
- Global Quality procedures adopted to support one company approach
- Global Process Deviation tool
- Standard Supplier Corrective Action Management tool
- Global Calibration software tool (Procal)
- Global ISO Compliance audits (completed by Global Quality Director)

Supplier Quality & Development

- Each supplier is approved thru the Evaluation process.
 - See procedure for details C7.4.1-2P
 - Assessments are done by supplier self evaluation
 - Documentation reviewed
 - Audit performed (onsite or phone)
 - Approved and uploaded to Global Supplier Management Site

- Global Supplier Manual

- See procedure for details C7.4-1M
- Sections addressing (but not limited to)
 - T&C's
 - Documentation requirements.
 - Supplier performance system
 - Workmanship
 - Corrective action
 - Traceability
 - Etc.



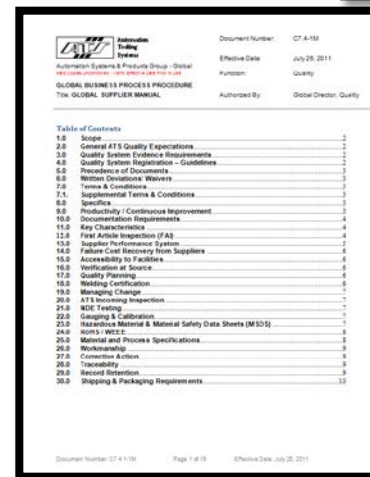
New Supplier Self Assessment

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SCORING GUIDELINES

Score	Process	Continuous Improvement	
PURPLE 9.5 - 10.0	<ul style="list-style-type: none">• Frequently / Consistently Exceeds Requirements	<ul style="list-style-type: none">• Proactive approach.• Efficient and effective processes.• Anticipates customer expectations.	<ul style="list-style-type: none">• Sustained long term positive trends• Results are used to generate process improvements• Improvements affect bottom line• Customer affected by positive results
GREEN 8.0 - 9.0	<ul style="list-style-type: none">• Meets Requirements	<ul style="list-style-type: none">• Detection based approach• Effective processes	<ul style="list-style-type: none">• Positive trends (more than 1 year)• Evidence that approach affects results
YELLOW 7.0 - 8.0	<ul style="list-style-type: none">• Infrequently / Meets Requirements	<ul style="list-style-type: none">• Reactive approach• Ineffective processes	<ul style="list-style-type: none">• Some short term trends (less than 1 year)• Defined actions rather than new tools / tests
RED 6.0 - 7.0	<ul style="list-style-type: none">• Does Not Meet Requirements	<ul style="list-style-type: none">• Customer requirements neglected	<ul style="list-style-type: none">• No commitment to improvement• No data available



Evaluation Training Manual

Automation Systems & Products Group - Global

Document Number: CT-A-10

Effective Date: July 29, 2011

Function: Quality

GLOBAL BUSINESS PROCESS PROCEDURE

The GLOBAL SUPPLIER MANUAL

Authorized By: Global Director, Quality

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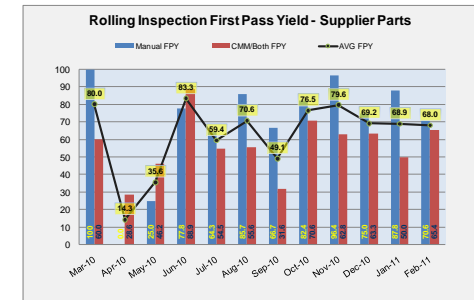
Supplier Quality & Development



■ Supplier Development and Monitoring

■ Monthly MRB meetings

- Supplier Quality and Supply chain review the supplier results monthly
- Items covered each meeting:
 - Review Open issues on MRB Action Items list
 - OTD
 - NCR's
 - Inspection FPY
 - Top Worst offenders
 - Reduce NCRs on top 50% of Occurrences from FY10
 - Top Best suppliers
 - LAR
 - PPM
 - SCAR activity
 - Review of Poor Performing Suppliers
 - Issue actions and update MRB Action item Plan



■ Supplier Corrective Actions

- Follow the 8D principle.
- Suppliers are required to respond within 10 days.
- Closure to the SCAR is required within 30 days.

		Automation Tooling Systems		Supplier Corrective Action Request	
				SCAR #: <input type="text"/>	
Issued To:			Initial Response Required within 24 hrs (for <input type="checkbox"/> Yes <input type="checkbox"/> No containment)?		
Date Initiated	Date Due	Initiated By/Contact Info		NCR #'s	
Part Number	Description			PO Number(s)	
1. Problem Description (definition)					
Is this a field issue / Customer return?		<input type="checkbox"/> Yes <input type="checkbox"/> No	Is this a repeat occurrence?		<input type="checkbox"/> Yes <input type="checkbox"/> No

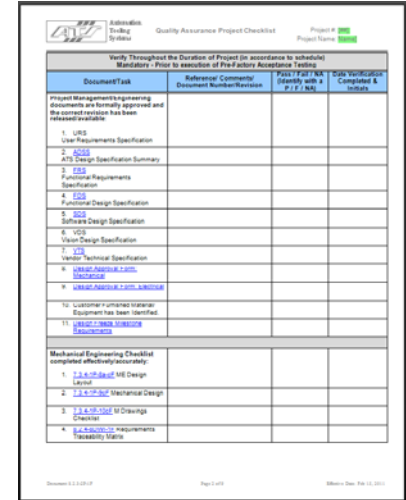
■ Quality Control:

- Receiving Inspection
- CMM measurement capability
- Key characteristic feature control
- Product Audit approach
- External Calibration (ISO 17025)
- Supplier Source Inspection
- Non conformance Management (online global DB implementation in process)
- Quarantine



■ Quality Assurance

- QMS - ISO 9001 & ISO 13485 Audits, CSA N285, CSA Z299.1, CSA B51
- Six Sigma Black Belt on site
- RAB Lead Auditor on site (Qualified to 14001, 18001 13485, AS9100 & 9001)
- Real time root cause & corrective action teams
- Statistical capability
- Quality Contract Reviews
- Project Quality Engineering
- Project compliance



Administrative Tracking System Quality Assurance Project Checklist Project # [] Project Name []

Verify Throughout the Duration of Project (in accordance to schedule)
Mandatory - Prior to execution of Finalatory Acceptance Testing

Document/Task	Reference/Component Document Number/Revision	VERIFY FIRST & LAST (Marked with a P, I, J, N)	QA WORKSHEET Completed & Initialed
Project Management/Engineering documents as formally approved and released/available			
No control records has been released/available			
1. URS User Requirements Specification			
2. ECS 215 Design Specification Summary			
3. ECS Functional Requirements Specification			
4. ECS Functional Design Specification			
5. ECS Software Design Specification			
6. VCS User Design Specification			
7. ECS Vendor Technical Specification			
8. www.honeywell.com Structural			
9. www.honeywell.com Electrical			
10. Customer furnished material Equipment has been identified			
11. www.honeywell.com Mechanical			
Mechanical Engineering Checklist completed effectively/accurately:			
1. www.honeywell.com ME Design Detail			
2. www.honeywell.com Mechanical Design			
3. www.honeywell.com M Drawings Checked			
4. www.honeywell.com Requirements Feasibility Matrix			

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