

Power & Controls Global Operations

Delegated Quality Representative

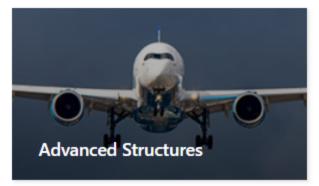
Review and Refresh # 3

QN & SRI

12/11/2024

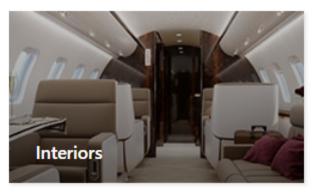
COLLINS SBUs

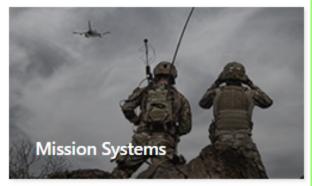
Collins Aerospace Strategic Business Units (SBUs)

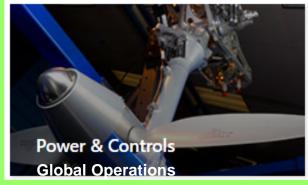












P&C AND GOPS SUPPLIER QUALITY

Organization Chart



Josh Mackey, MA Supplier Quality



Christine Foley, CT Associate Director Compliance

Supplier Quality Assurance Rep (SQAR)

- Supplier's quality compliance focal
 Conduct audits QMS.
- ASQR, flight safety
- Release flight safety hardware shipments
- Work with DQRs
- Conduct training at supplier

DQR / Source Inspection / COPS

- DQR approval and Rectifications
- CQAR Oversite
- Supplier Source Inspection Application / Help Desk
- Flight Safety and KPC
- Source inspection (iLots)
- Flight Safety / ProCert database (COPS)

Supplier Response Center Gatekeepers / Delegation owners for:

- Supplier Request for Information (SRI)
- V1 QNs (VMRR for Rome)
- Part Marking

FAI

- Supports Accenture team that reviews and approves supplier FAI submittals (as required by PO)
- Review and approve Casting FAIs



Ryan Moran, CT Senior Manager Work Transfer

Processes / Work Transfer

- Owners for compliance processes
- Collins Managed Work transfer focals
- Supplier Managed Work transfer focals



Craig Fiermonte, MA Associate Director Advanced Quality

Zero Defect Plan (ZDP)

- Regular, periodic engagement with their assigned suppliers to drive implementation of ZDP
- Execute both reactive and proactive elements of ZDP
- Review past escapes and corresponding RCCA for robustness and effectiveness
- Ensure robust Detection actions are in place to prevent future escapes
- Ensure read across complete for all actions to all applicable Collins PNs
- Lead manufacturing process reviews (MPRs)
- Review PFMEAs
- Drive process capability studies thru statistical FAIs

New Product Intro (NPI) / PPAP

- Certified PPAP MFP's (member focal points)
- Review and approve supplier submitted PPAP packages
- ASL and Sourcing board approvals
- Review and approve drawings



Emily Fitzko, MI Associate Director Escape Management

Supplier Quality Engineer (SQE)

- Lead Escape / RCCA investigations for their assigned suppliers
- Utilize QIMs to formally document Containment and RCCA from suppliers
- Determine validity and responsibility for suspect supplier issues - Disposition corresponding V2 QNs
- Collaborate with Operations Quality and Quality Clinics to identify and drive supplier improvements





Mike Page, CA Associate Director GOPS

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(SQE) Same responsibilities as P&C group

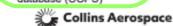
Supplier Quality Engineer

Covers supplier issues for all Global Operations sites

- Poland
- Singapore
- Puerto Rico
- India

Special Process

- Subject matter experts for different types of special processes – coatings, heat treat. NDT
- Manage 80/85 reports approved supplier list for special processes and castings
- Support P&C and GOPS as needed during investigations or improvement activity



INTRODUCTIONS

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Paul Lipert

Supplier Quality Assurance Representative (SQAR)

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Traci Totten

Specialist, Quality Compliance Mobile: +1 860 967 5028

<u>Traci.Totten@collins.com</u>



Special Guests- Supplier Response Center:

Tom Bianchi **SRC** Manager

hssri@hs.utc.com; hscad@hs.utc.com



Jigar Surati Specialist, Supplier Quality

hssri@hs.utc.com



Will Mallia Specialist, Supplier Quality hssri@hs.utc.com





AGENDA

Introduction & Portal Navigation

- What is a DQR?
- Where are DQR requirements outlined?
- Portal Navigation: Forms & Documents, Help & Training
 - Supplier Alerts
 - DQR-related documents
 - Additional Training
 - Supplier Circulars
 - Help Desk/ SSI ticket
- Quick Links Overview
- Quick Links: Drawings & Specifications
- Quick Links: COPS Overview
- Quick Links: Quality Notification (QN)
- Quick Links: Supplier Request for Information (SRI)

Product Documentation Review

- Special Processes
 - 80/85 Report
 - 80/85 Report definitions
 - HSM17 Table 1 Applicability
- <u>Documentation Review Requirements</u>
 - Minimum Documentation for Source Inspection
 - Revision Review
 - FAIR Review
 - Part Marking
 - Work orders/ Inspection Reports
 - Certifications
 - Sampling/ Frozen Processes

Inspection Lots (I-lot)

- Create Inspection Lot
- Record Results
- Usage Decision
- General Operations
 - Down Counting
 - Searching iLots
 - Cancelling iLots
 - Printing CofC
- Conclusion
 - Housekeeping
 - What's Next?

Quick Links: Part Identification Generator (PIG)

INTRODUCTION - WHAT IS A DQR?

- A Delegated Quality Representative (DQR) is a supplier representative (employee) approved by Collins to perform Source Inspection and related duties. When a DQR is performing source inspection, they are doing so on behalf of Collins and shall act in the best interest of Collins. Reference HSM17.
- DQR responsibilities include:
 - Performing Supplier Source Inspection (SSI), creation of iLot's and releasing product
 - Understanding and compliance with Collins Aerospace requirements
 - Example: Drawings, Specifications, Purchase Orders
 - Recognizing items that affect Collins products and processes
 - Example: Audits, Quality Notifications, Supplier Circulars
 - Navigation knowledge of the Supplier Portal
 - Reporting any (integrity) concerns to their Collins SQAR

DQR TRAINING LOCATION

The full DQR training video, PDF companion, and HSM17 are located on the Supplier Portal:

Help & Training-> Forms & Documents-> Supplier Portal Training Documents Page-> Power & Controls Standard Work-> DQR Certification (Supplier Source Inspection page)

https://suppliers.utc.com/SPPortal/Pages/QualitySSI

Supplier Source Inspection

Quality Supplier Source Inspection

Supplier Source Inspections ensure that all manufactured and assembled product meets or exceeds all purchase order, drawing, and specification requirements. Product shipped from suppliers goes directly to assembly within the Collins manufacturing cell or directly to the customer from the Collins facility. It is critical that the DQR, who acts as a representative of Collins during inspections, ensures product is inspected and meets or exceedes the standards.

DQR Process

Collins initiated the Designated Quality Representative (DQR) program in 2003. The DQR program enables a Collins-approved supplier representative to perform over inspection activities and release product shipments on behalf of Collins. Suppliers shall use the DQR process for all shipments of Collins product to Collins facilities or to drop ship product to Collins customers.

New DQRs:

New DQR candidates must submit a form 7 (DQR Candidate Application) to their Collins SQAR for approval. Upon acceptance, the DQR candidate can proceed with the additional requirements found in the "Steps to Become a DQR" link below, DQR Forms can be found in the "DQR Forms and Training" section below. If there are questions or uncertainty about your assigned SQAR please contact DQRCertification@collins.com

Steps To Become a DQR

DQR Re-Certification:

Existing DQRs are required to recertify every three years, in alignment with their AS13001 expiration date. Failure to do so will result in permissions being removed. DQR re-certification requirements are outlined in the "DQR Re-certification Process" link below. Re-certifications packages should be sent to DQRCertification@collins.com; and copy your Collins SQAR on the submission. Questions can be sent to DQRCertification@collins.com and/or to your Collins SQAR.

DQR Re-certification Process

DQR Email Address Changes/ Removals:

Please notify your Collins SQAR and Collins Supplier Quality at DQRCertification@collins.com of any DQR changes in email addresses or if you will no longer be performing DQR responsibilities.

DQR Forms and Training:

- Form 7 DQR Candidate Application
- . Form 8 DQR Letter of Agreement (LOA) DQR Training Video

DQR Training (PDF only)

- DQR Collins Quiz
- . DQR Collins Quiz QR Code
- · Optional Inspection Lot Checklist for DQRs and CQARs

SSI Training

SSI Training is found on the new Supplier Potal Training page. You can access the

Supplier Circulars

Supplier circulars cover items of interest, interpretation of drawings and specifications as well as clarification of procedures. In addition, they bring attention to examples of problems encountered by suppliers and present their solutions for possible application to other suppliers. Click the title to view the full library of circulars.

Quality Forms and Documents

HSM17 (Supplier Quality Requirements)

- Master DQR Checklist Rev J
 - Digital Product Definition Training
 - HSF-0302.04 (Product and Process Validation Statistical Control
 - · Supplier to Supplier Shipment Instructions
 - COL-FRM-34 (Final Product Review and Acceptance Record)
- HSM18 (Boeing Drop Ship)
- HSM19 (Counterfeit Avoidance and Traceability)
- HSM236 (FAI Requirements)
 - AS9102 Rev C Forms
 - QC-1700.00 FAI Report Review Checklist
- HSC16199 (Critical to Quality Characteristics)
 - KPC Management Form 0996
 - Supplier Self-Selected KPC Summary Sheet HSF 5138
 - Safety Part Training (Flight Safety)
 - Sub-tier Safety Part Training
 - CTQ Non-Safety Training
- CEP100 (Configuration Management Requirements)
- Engineering Changes:
 - EC Disposition Codes
 - HSF-2513.91 (Supplier/Subcontractor Engineering Change Request)
 - Engineering Change Justification Form
- MISH List
- COL-FRM-0087 (Quality Control Action Requirements)
- QN Template
- HSF5105 (Frozen Process-Non HSC16199 Approval Form)

Alternate Specification References

- 69100-1: Alternate Parts Listing
- o 69100-2: Alternate Materials Listing
- 69100-3: Alternate Processes Listing
- o 69100-4: Vendor/Name Substitutions
- PN02.01-06: Alternate Specifications List



Portal Navigation: Quick links Quality Notifications (QN)



PORTAL NAVIGATION-QUICK LINKS-QUALITY NOTIFICATION

- A QN is an indication that certain actions and reviews need to take place regarding a part defect prior to a supplier shipping product.
- A QN contains detailed information about the defect, such as defect code types that describe the nature of the defect, as well as an attachment template in which the supplier provides further details.
- To create or view QNs for your vendor code, select "Quality Notification" from Quick Links.
- To access the QN attachment template, required for QN submission, navigate to Help & Training->Forms & Documents->Supplier Source Inspection



QUICK LINKS

SNC LINKS:

Accounts Payable

Advanced Ship
Notifications

Alert Monitor

Delivery Control Monitor

Download Center
(Forecast, Due List)

Forecast Collaboration

Pick List/Delivery Due List
PO Collaboration

Quality Notifications

SA Collaboration

SMI Details

Source Inspection

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DQR Forms and Training:

Quality Forms and Documents

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- MISH List
- COL-FRM-0087 (Quality Control Action Requirements)
- QN Template
- HSF5105 (Frozen Process-Non HSC16199 Approval Form)

PORTAL NAVIGATION-QUICK LINKS-QUALITY NOTIFICATION

- Instructions for QN creation, how to view open and closed QNs, and supplier requirements for submitting QNs can be found on the supplier portal: Forms & Documents-> Supplier Portal Training Documents->Power & Controls Standard Work
- If there are product nonconformances on QN, the DQR shall add this feature to their over-inspection characteristics. The nonconformance will be listed in the quality notes and a copy of the QN is to be included in the data package and listed on the packing slip.
- Questions/ concerns regarding the QN process can be directed to hscad@hs.utc.com

Power & Controls Standard Work

- DQR Quiz
- DQR Quiz QR Code
- DQR Training
- DQR Certification
- How Do I Submit a Quality Notification?
- Create and Review Quality Notifications
- What is SRI (Supplier Request for Information)?
- Supplier Request for Information (SRI)
- · Part Marking Approval Process and Reference Guide (PIG)
- Supplier Source Inspection Lot

Control of Process and Safety (COPS)

- Producer COPS FSC and CTQP Instructions
- Producer COPS CTSC and CTOC Instruction
- Producer COPS KPC1 and KPC2 Instructions
- Producer COPS Instructions Overview



V1 QN APPLICABILITY

Do's



Don't

- Issue is detected by a supplier (unplanned departures)
- Parts are completed or in WIP
- Engineering Bridge disposition can be used when CR is created that addresses non-conformance
- Spec and Actuals shall define the nonconforming condition for each defect

- Items that can be re-worked with minimal risk should not be submitted on QN (FS parts excluded)
- Planned departures from print cannot be submitted on QN (i.e., capability issues)

Non-Conformance

- If the Corrective Action indicates a Collins drawing change is required, SRI# must be provided
- QN can be placed on hold due to missing or lack of Cause/ Corrective Action
- Disposition of QNs are based on technical considerations- not influenced by cost/ schedule
 Collins Aerospace

Non-Compliance

- QNs cannot be used for drawing revision issues or Qualified Distributor List issues
- QN's reporting non-compliance to HSM17 or the 80/85 Report must include material/special process certifications.

Portal Navigation: Quick links Supplier Request for Information (SRI) SRI Instruction Review Submitting an SRI, Viewing an SRI response, Resubmitting an SRI, and Types of Submissions.



PORTAL NAVIGATION-QUICK LINKS-SUPPLIER REQUEST FOR INFORMATION

- The Supplier Request for Information (SRI) form is used as a means of formal, documented communication between Collins and its suppliers.
- To create or view SRIs, select "Supplier Request for Information" from Quick Links.

QUICK LINKS SNC LINKS: OTHER APPLICATIONS/REPORTS: Actuation Quality Index/Drawings Advanced Ship Notifications Buffer Stock Alert Monitor Move IT Delivery Control Monitor Control of Process and Safety (COPS) Download Center Kanban Forecast Report (Forecast, Due List) Materiel Forecast Collaboration OTD Details Pick List/Delivery Due List Part Identification Generator PO Collaboration PLM Engineering Information **Quality Notifications** Net Inspect SA Collaboration Scorecard SMI Details Supplier Audits (ETQ Reliance Source Inspection Aerospace) Supplier Confirmations Supplier Performance Dashboard Supplier Request for Information **UII Generator For ASN** VMI Report Transportation Management System



PORTAL NAVIGATION-QUICK LINKS-SUPPLIER REQUEST FOR INFORMATION

- Instructions for SRI creation, how to view open and closed SRIs, and supplier requirements for submitting SRIs can be found on the supplier portal:
- Forms & Documents->
- Supplier Portal Training Documents->
- Power & Controls Standard Work ->
- Supplier Request for Information
- Questions/concerns regarding the SRI process can be directed to hssri@collins.com

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PORTAL NAVIGATION-QUICK LINKS-SUPPLIER REQUEST FOR INFORMATION

SRI's are submitted to request information from Collins, such as:

- Engineering Change Justification Form Used for Supplier Convenience (form found on Portal)
 - Note: Supplier Circular #180 defines this process.
- Tooling Requests
- HS14612 and HS14602 Frozen Process Changes Form HSF-5105 is found on the Supplier Portal
- Supplier Process Change Notification ASQR-01 Form 2
- Supplier Managed Work Transition ASQR-01 Form 4
- Quality Waiver Compliance Gap Analysis ASQR-01 Form 5
- Notification of Potential Quality Escape ASQR-01 Form 6



PORTAL NAVIGATION-QUICK LINKS-SUPPLIER REQUEST FOR INFORMATION

SRI's **Cannot** be submitted to request information from Collins, such as:

- Altering contractual agreements
- Constitute documents such as Waivers, Deviations, Engineering change approvals
- Flight Safety Board approvals, or other requirement flow downs
- Distributor Requests Form 9

To re-iterate, an SRI, also known as an electronic version of ASQR-01 Form 3, is a tool that Collins uses as a formal means of communication.

COMMON TURNBACKS: QN & SRI

Quality Notifications (QN)

- Missing template
- Template not filled out correctly
- Contact information missing
- Poor or no cause and corrective action statement
- Condition not supported using a QN
- Missing photos or certifications
- Reworkable condition
- Parts shipped or not yet manufactured (not a QN condition)

Supplier Request for Information (SRI)

- Request not clear/lack of detail
- Condition not supported using SRI
- Missing required forms/attachments
- Not supported by Power & Controls
- Not all part numbers are covered
- Indicating priority without proper justification

SRI Support: hssri@collins.com

QN Support: hscad@collins.com



QUESTIONS?

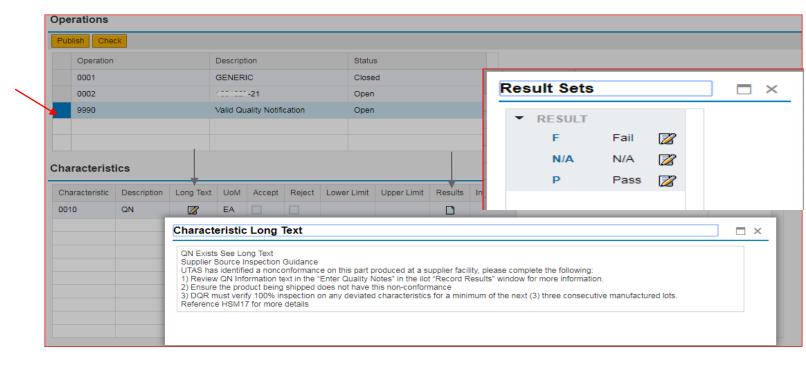


BACKUP



DOR TRAINING - RECORD RESULTS-QUALITY NOTIFICATION

If an operation exists for QN validation, this an indication that the part has been identified as having a nonconformance. Subsequent lots require 100% inspection to validate part is compliant. Review the Long Text for details. By selecting "Pass" the DQR is confirming that 100% inspection is complete, and part(s) conform.



Any additional information may be added into the Quality Notes section. See QN Work Instructions for guidance on how to search & review QNs.



PORTAL NAVIGATION-QUICK LINKS-SUPPLIER REQUEST FOR INFORMATION

- Instructions for SRI creation, how to view open and closed SRIs, and supplier requirements for submitting SRIs can be found on the supplier portal: Forms & Documents-> Supplier Portal Training Documents->Power & Controls Standard Work -> Supplier Request for Information
- SRIs are not to be used for processing product nonconformance
 SRIs alone cannot alter contractual agreements, nor do they
 constitute documents such as waivers, deviations, engineering
 change approvals, Flight Safety Board approvals, or other
 requirement flow downs. The SRI system is merely a means
 of documented communication between Collins and our supply base.
- Questions/concerns regarding the SRI process can be directed to hssri@collins.com

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SRI APPLICABILITY



- Print updates for cancelled, superseded specs
- Drawing and specification clarifications
- Supplier work transfers
- Tooling/Purchase Order requests
- Current and First Article concerns and comparisons
- Flowdown compliance concerns
- Frozen Processes
- Special process questions and inquiries
 - Adding to 80/85 list
 - Source controlled special process questions
- Manufacturing Part Number and Approved Supplier List updates



- Disposition on material already nonconforming
- Qualified Distributor List approvals
- Supplier part numbers only without a connection to Collins part number

This is a legacy Hamilton Sundstrand tool

