NOTE NUMBER	NOTE TEXT
0000000001 *06/26/2026*	Supplier shall notify GKN of any changes in product and/or process, changes in suppliers, changes of manufacturing facility location and, where required, obtain GKN approval of changes prior to incorporation.

Supplier's facilities, contracted products, procedures and records shall be made available to GKN to verify compliance to purchase order requirements. A representative, familiar with the supplier's operations and systems, shall be provided to assist GKN in conducting surveillance activities. Access shall also be extended to GKN customers and/or regulatory agencies as applicable.

Supplier shall maintain an effective Quality System in accordance with the following GKN Supplier Quality Standard depending on GKN location P.O. is issued from:

- SQAR 211 and associated appendix based on End Item Customer noted on P.O. (i.e. PWA, G.E., Rolls Royce, Etc.) Note: If GKN PO identifies part or material as GKN Sweden Design, SQAR 210 will apply in place of SQAR 211. This will be noted on the PO flow down if it applies.

- SQAR 210 / 211 and associated specs are located on the GKN Supplier Portal Level 2. Supplier Portal Level 2 requires a GKN issued Username and Password. Website is located at the following address: https://teamplace.gaes.gknaerospace.com/sites/supplierportallevel2/SitePages/home.aspx
  See appendix 1 and 2 for flow chart of SQAR spec structure for reference.
  Note: The requirements of the individual Q-notes listed on the PO attachments take precedence over requirements listed in SQAR 210/211 and related SQAR specifications in cases of conflict.

The Quality System shall provide for control and identification of material throughout the processing cycle, detection of nonconformance, timely corrective action and disciplines required to produce material that is representative of good workmanship. The Quality System shall be documented by the supplier's quality manual, describing the sub-systems utilized to fulfill these system requirements, including exhibits of various forms, tags and other control documents. Supplier shall maintain records essential to the effective operation of the Quality System. The system and revisions are subject to GKN review and approval.

No substitution of material specification, size or any other nature will be allowed except by amendment on the purchase order. No substitution, replacement, refurbishment, modification or alteration of any nature may be made to accountable property provided to the supplier (i.e. GKN supplied tooling and raw materials) without written authorization of GKN. All materials shall be those furnished or specified by GKN.

Supplier shall maintain a system to document nonconformance, investigate and determine root cause, initiate corrective action and follow-up in order to eliminate causes of nonconformance. Any nonconformance to the purchase order or drawing requirements must be documented on GKN's Nonconforming Material Report. Disposition of nonconformance must have formal approval by GKN engineering. Formal corrective action will be required. Supplier is liable for any cost incurred by GKN due to rework/repair of nonconforming hardware.

Notification of escapement (NoE) process:

Seller shall provide written notification to GKN when a nonconformance is determined to exist, or is suspected to exist, on product already delivered to GKN. Written notification shall include:

A – Affected process(es) or product number(s) and name(s).
B – Description of the nonconforming condition and the affected engineering requirement (i.e. What it should be and what the actual condition is).
C – Quantities, dates and destinations of delivered shipments.
D – Suspect affected serial number(s) or date codes and airplane units as applicable.

Notifications must occur immediately (not to exceed 24 hrs or the next business day) of knowing all the above information. If the condition is a possible safety of flight issue, all available information shall be submitted immediately, concurrent with the investigation to determine the items listed above.

Sellers with delegated authority in accordance with Boeing D-13709-4 Appendix C that discover the delivery or suspected delivery of nonconforming product are not required to notify GKN within (1) business day unless safety or certification concerns exist. Escaped product is to be investigated and communicated to GKN as required by D-13709-4 Appendix C.

The supplier shall maintain an inspection system in compliance with the requirements of applicable quality standard noted above including a measuring instrument calibration system in accordance with ISO 17025, ISO 10012-1 or ANSI Z540-1 (latest revision). Supplier shall maintain surveillance of their material and process sources. Supplier's sub-tier purchase document shall contain all necessary data (drawings, specifications, etc.) to fulfill the applicable GKN requirements, with correct revisions indicated. Supplier is responsible for the quality of purchased materials and services and shall develop plans to assure they are appraised to the extent required. Suppliers may be required by GKN to schedule auditing of their sources of material and services to detect possible unauthorized changes to systems, methods, or processes that could affect product quality. Audits may take the form of on-site evaluations, process reviews, documentation review or a combination of these techniques to verify the source is in compliance to GKN's purchase order requirements. Audit plans are subject to GKN approval.

Supplier shall identify all products per drawing and/or purchase order requirements. Unless otherwise stated by purchase order or drawing, raw material identification (i.e. sheet, plate) shall include all items required by raw material identification specification and also include the part number indicated on the GKN purchase order as part of the identification.

For hardware produced as an assembly/sub-assembly, part numbers and heat numbers of each component shall be documented. All hardware must be traceable back to its specific material heat lot/batch. Records of traceability shall be maintained by the supplier as part of this objective evidence of quality control and acceptability.

Suppliers may at the discretion of GKN Supplier Quality be required to utilize APQP tools such as PFMEA (AS13004), 8D Problem Solving (AS13000), Measurement System Analysis (AS13003) and Process controls (AS13006) to resolve recurring nonconformances. GKN Supplier Quality will communicate required tools to be used as needed.

Suppliers participating in the GKN Supplier Self Release Program (SSRP) per SQAR 500 series specifications shall have all products listed on the approved Qualified Parts List (QPL) released by an Authorized Supplier Release Agent (ASRA).

0000000002
05/10/2002
The supplier shall maintain a Quality System in compliance with the requirements of MIL-Q-9858A.

0000000003
05/10/2002
The supplier shall maintain a Quality System in compliance with the requirements of General Electric specification S-1000.

0000000004
07/06/2015
The supplier shall maintain a Quality System in compliance with the requirements of UTC specification ASQR-01. Articles contained within this purchase order are for UTC end use and must be controlled per applicable purchase order requirements.

0000000005
04/28/2020
The supplier must hold written approval from either Rolls-Royce per SABRe requirements or GKN approval per GKN Supplier Quality Standard, CTQS 9002. Any purchased material or subcontracted services must also be from Rolls Royce or GKN approved suppliers.

To satisfy this requirement, copies of the approval letter(s) must be delivered with the first shipment. This also applies to any/all sub-contractors. Any proposed changes to sub contractors used must be reported to GKN prior to incorporation and must follow requirements of the Rolls Royce SABRe: Source Change Process.

This quality requirement also applies to raw material suppliers of non-MSRR materials used for the manufacturer of "non-classified" parts only for Rolls-Royce. The material, however, must be fully tested prior to release. This requirement does not cover forging suppliers controlled to MSRR 9951. This quality requirement also applies to process/services not considered "sensitive" per Rolls-Royce specifications/drawings (RR SQA delegated approval letter, Addendum 3).

Note: This Q-note is obsolete for GKN El Cajon purchase orders. See QC note 28 for replacement.

NOTE NUMBER	NOTE TEXT
0000000006 *07/15/2010*	If software is involved in performance of work for GKN, the supplier shall maintain software control procedures that comply with DOD-STD-2168 software quality program requirements. Software quality programs are required when digital configuration data is used during realization of the product. This applies to product configuration data, coordinate inspection data, and digital data developed to control automated processes (e.g. CNC machining).
0000000007 *05/10/2002*	The supplier shall maintain a Quality System in compliance with the requirements of Honeywell specification SPOC 002 and the Quality System shall be to the SAE AS9000 standard. Registration to ISO 900x, D1-9000, QS9000, EN9000 or JC 9000 is acceptable providing the supplier has defined deltas between AS9000 and their current system and has evidence within the supplier quality system submitted to Supplier Performance Management Center (1-877-825-3794).
0000000008 *09/06/2003*	HUMAN SPACE FLIGHT REQUIREMENTS FOR USE IN HUMAN SPACE FLIGHT. MATERIALS, MANUFACTURING, AND WORKMANSHIP OF HIGHEST QUALITY STANDARDS ARE ESSENTIAL TO ASTRONAUT SAFETY. This clause will be inserted in all subcontracts and purchase orders for such items down to the lowest tier. If you are able to supply the desired items with a quality which is higher than that of the items specified or proposed, you are requested to bring this fact to the immediate attention of the purchaser. STAMP WARRANTY Stamp warranty is a stamp or signature that is the professional, individual warranty (guarantee) that the practitioner understood the work to be performed and personally performed or witnessed the work. Stamp warranty also guarantees that the task is performed literally as stated in the build record. The practitioner’s job is to perform all tasks exactly as documented in the work instructions. Any condition/situation in which an individual feels would compromise their stamp/signature warranty should be questioned and resolved prior to the application of the stamp/signature. The following objectives must be satisfied in order to produce quality products guaranteed to meet customer requirements. A. Build documents shall correctly reflect specifications and drawing requirements: B. All processes specified in build documents are being performed exactly as stated. C. Personnel are trained and or certified to perform required operations. D. Planning and other instructions are clear, correct, easily executed, and can be verified. E. Only authorized and acceptable materials and components are used to manufacture hardware. <u>Remember:</u> Doing it right is mandatory, and you the practitioner, are the ultimate guarantor of Mission Success. Your signature represents your company’s and your integrity.
0000000009 *04/28/2020*	The supplier shall maintain a Quality System in compliance with the requirements of GKN Aerospace document CTQS 9002. Note: This note is obsolete for GKN El Cajon POs. See QC Note 1 for Quality System requirements applicable to El Cajon purchase orders.
0000000010 *05/10/2002*	The supplier shall maintain a quality system in compliance with the requirements of the Short Brothers plc. specification SB/QC/01.
0000000011 *04/20/2012*	Supplier must be approved by the National Aerospace and Defense Contractors Accreditation Program (NADCAP) for the process being performed.

NOTE NUMBER	NOTE TEXT
0000000012 *05/10/2002*	Seller shall not disclose (oral, visual, written or otherwise) or provide such drawings, specifications and other technical data or goods to any foreign person (including but not limited to seller's employees, seller's subcontractor's, etc) or foreign firm or institution without first obtaining prior authorization. A "foreign firm or institution" means those organized or existing under the laws of a country other than the United States, its territories, or possessions. The term includes any agency or business organizations that are owned or substantially controlled by foreign governments, firms, institutions or individuals. A "foreign person" does not include United States citizens and corporations and permanent resident aliens of the United States.
0000000013 *10/15/2020*	Warning: This document contains technical information whose export is restricted by the U.S. International Traffic in Arms Regulations (ITAR). This technical information is prohibited from being disclosed by any means to a non-US person, whether in the United States or abroad, without prior written approval from the US Government. Additionally, in accordance with the ITAR Section 122.1, “Any person who engages in the United States in the business of either manufacturing or exporting of defense articles or furnishing of defense services is required to register with the US Department of State Directorate of Defense Trade Controls (DDTC). Manufacturers who do not engage in exporting must nevertheless register.” Information with regards to the registration with the DDTC is available at https://www.pmddtc.state.gov/ddtc_public?id=ddtc_kb_article_page&sys_id=def5f542dbf8d30044f9ff621f961959 . Violations of these export laws are subject to administrative, civil and/or criminal penalties. Disseminate in accordance with the provision of AFR 80-34/DOD Directive 5230.25.
0000000014 *09/23/2010*	The supplier shall maintain a Quality System in compliance with the requirements of Rolls-Royce SABRe. This also applies to any/all sub-tier suppliers used to fulfill this order. Any proposed changes to suppliers used must be reported to GKN prior to incorporation and must follow requirements of the Rolls Royce SABRe: Source Change Process.
0000000015 *09/23/2010*	Any purchased raw material or subcontracted services under this order must be from Rolls-Royce SABRe approved suppliers. Independent laboratory verification of raw material shall be in accordance with Rolls-Royce SABRe. To satisfy this requirement, copies of the approval letter(s) must be delivered with the first shipment. Any proposed changes to suppliers used must be reported to GKN prior to incorporation and must follow requirements of the Rolls Royce SABRe: Source Change Process.
0000000016 *12/18/2003*	Supplier shall maintain current third party certification to ISO 9001.
0000000017 *10/10/2012*	Supplier shall maintain current third party certification to AS9100.
0000000018 *12/08/2010*	GIDEP Participation Required - The supplier shall be a participant in the Government Industry Data Exchange Program (GIDEP). The supplier shall compare all published alerts, safe-alerts, diminished sources, and problem advisories against the components and parts list used in the contract. The supplier shall notify GKN Aerospace of any matches found during the comparison and provide GKN Aerospace with an impact assessment and corrective action plan. The supplier shall be responsible for making any design changes,(if supplier designed) obtaining GKN Aerospace approval, and conducting any tests necessary to correct or mitigate for any impacts resulting from a GIDEP alert of safe-alert. Additionally, upon request by GKN Aerospace, The supplier shall provide and impact assessment in response to subsequent GIDEP alerts for this item. The supplier shall support these assessments for both delivered and on-order items.
0000000019 *01/17/2012*	Subcontracted laboratory testing, and calibration sources must be accredited to ISO/IEC 17025 requirements, or GKN approved equivalent standard. The services provided by the subcontractor shall appear in the subcontractor’s scope of accreditation issued by the registrar. Subcontracted laboratory testing and calibration sources shall have implemented procedures to ensure that eye examinations, including visual acuity and color vision, as applicable, are administered

by a medically qualified/trained person to all individuals performing laboratory testing, and calibration.

Examination intervals shall not exceed one year.
Individuals shall be tested in at least one eye, either corrected or uncorrected.
Color Perception testing is required one time only. Individuals shall be capable of adequately distinguishing and differentiating colors used in the method for which certification is required, the process being performed or color discrimination activity. Documentation shall be retained be retained for each individual.

Individuals performing visual inspection (i.e. calibration, non-weld, in-process, layout, dimensional) shall be compliant with near vision requirements of Snellen 14/18, (20/25), Jaeger 2 at 14 inches, or Ortho-Rater 8.

***Note:** Vision examinations may be substituted for the options listed above providing the equivalence is verified and documented by a licensed optometrist*

0000000020
03/20/2018

Articles contained within this purchase order are for US Government end use and must be controlled per applicable purchase order and regulatory requirements.

OEM, Original Equipment Manufacturer (e.g. Pratt & Whitney, General Electric, Boeing, etc.), drawings and/or specifications used in the execution of this purchase order must be supplied and controlled by GKN Aerospace. Said documents shall exhibit evidence of issuance from the U.S. Government or authorized agency of the same.

For orders where Pratt & Whitney is the OEM, Pratt & Whitney MCL Manual specifications are proprietary to Pratt & Whitney and shall not be used in fulfillment of this order. GKN to supply alternate specifications to be used in place of the MCL Manual specifications as required. If alternate specifications are not listed on the GKN PO flow down documents, supplier to contact GKN and request alternates to be used. Additionally any references to PWA LCS Controls (Laboratory Control at Source) on supplier certifications shall be considered non applicable to this order.

Tools used in the fulfillment of this purchase order shall not be owned by an OEM (see above). The supplier shall submit a tool list (including tool identification and ownership) to GKN Aerospace. Written authorization to use the proposed tools shall be secured from GKN Aerospace prior to the initiation of any work and retained by the supplier. Work performed in servicing this purchase order shall be in accordance with the authorized tool list. Subsequent modification to an authorized tool listing shall be authorized and retained as stated above.

As applicable, part marking shall be applied in accordance with the appropriate drawing (and its subordinate specifications) with the following modifications:

1) Part Number shall be as stated by the applicable Purchase Order line item.
2) Drawing revision shall be the drawing revision applicable to the Purchase Order line item.
3) Supplier or vendor numbers shall be the GKN assigned number as reflected in this purchase order preceded by the letters “VC” (i.e. VC######).

0000000021
08/11/2004

All sources of raw material (wrought, cast, forged, etc.), detail items (assemblies, components, hardware, etc.), and significant processes (heat treat, welding, chemical processing, coating, testing, etc.) shall be controlled by the supplier and restricted as follows:

- Sources for raw materials and detail items shall be currently approved by the OEM or CEA.
- Sources to be employed for significant process shall be currently approved by an OEM, Nadcap, or the CEA.

The supplier shall perpetuate flow-down of the requirements stated herein to their sub-tiers as appropriate.

For the purposes of this quality note clause, the following definitions apply;

CEA *Cognizant Engineering Authority – The USAF engineering branch chief for the respective propulsion system.*

NOTE NUMBER	NOTE TEXT

OEM — *Original Equipment Manufacturer – The source or sources primarily responsible for the design and development of aircraft turbine engines for a US DoD activity or a NATO country.*

Nadcap — *The Performance Review Institute branch responsible for the accreditation of significant process sources.*

0000000022
02/19/2014

The supplier shall maintain a Quality System in compliance with the requirements of The Boeing Company D6-82479. Articles contained within this purchase order are for The Boeing Company end use and must be controlled per applicable purchase order requirements. The supplier shall confirm that The Boeing Division and Aircraft Model have been properly delineated on the GKN purchase order and ensure that this information is flowed to any sub-tiers as appropriate.

0000000023
10/10/2012

Work to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company PO and must be accomplished in accordance with process specification on purchase order and Lockheed Martin Aeronautics Company Appendix QJ.” A copy of this purchase order shall be maintained on file and be made available for review, upon request, by Chem-tronics or by Lockheed Martin.

A Certificate of Compliance shall be provided that includes

1. a unique certification number;
2. title and specification number (including revision letter) of the process;
3. name and address of the process or NDT facility;
4. Lockheed Martin assigned processor number;
5. date the C of C was issued;
6. purchase order part number;
7. quantity of parts (to include quantity accepted/rejected);
8. signature and title of authorized quality agent of seller; and
9. fracture durability classification or serialization when required.

Completed parts shall be suitably wrapped, boxed or racked to guard against shipping damage. Rust or corrosion inhibitors shall be applied in accordance with the supplemental requirements of this purchase order if applicable.

0000000024
05/10/2002

All special processes shall be performed only by sources that are listed in the Coordinating Agency for Supplier Evaluation (C.A.S.E.) register and approved by Aerojet Propulsion Division (C.A.S.E. Member 030).

0000000025
05/10/2002

Supplier shall include the following with each shipment: certification(s) identifying the processor, part number, purchase order number, process specification number, identification of process method used, acceptance criteria document and the applicable "quality control standard" (QCS). Certifications must contain the document(s) revision(s).

0000000026
05/10/2002

All material furnished or processing performed under this order must be by a source approved by General Electric.

0000000027
05/10/2002

All material furnished or processing performed under this order must be by a source approved by Pratt & Whitney.

0000000028
09/23/2010

The supplier must hold written approval from Rolls-Royce per SABRe requirements. Any purchased material or subcontracted services must also be from Rolls Royce approved suppliers. To satisfy this requirement, copies of the approval letter(s) must be delivered with the first shipment.

This also applies to any/all sub-contractors. Any proposed changes to suppliers used must be reported to GKN prior to incorporation and must follow requirements of the Rolls Royce SABRe: Source Change Process.

This quality requirement may apply to those components/processes/sources classified as "sensitive" by Rolls-Royce. This requirement also applies to any/all forging suppliers (regardless of classification) controlled per MSRR 9951 that includes any/all subtiers. (RR SQA delegated approval letter).

(Note to GKN’s purchasing/engineering dept: Quality requirement 55 also applies.)

NOTE NUMBER	NOTE TEXT
0000000029 *07/15/2010*	All material furnished or processing performed under this order must be by a source approved by Honeywell. GKN purchasing shall not place orders with any other supplier(s) than specified on the GKN Bill of Material (B.O.M), MFG or Quality notes.
0000000030 *07/15/2010*	All materials furnished or processing performed under this order must be by a source approved by The Boeing Company per D1-4426. The supplier shall confirm that the Boeing Division and aircraft model have been properly delineated in the GKN purchase order and ensure that this information is flowed down to any subtiers as appropriate.
0000000031 *05/10/2002*	Reference General Electric specification S-343 for aluminum extrusion product control. Copy to be provided by Chem-tronics.
0000000032 *05/10/2002*	The following requirements apply for forgings and flash welded rings: 1) applicable specifications S-306 and S-9013. 2) raw material is for a G.E. application. 3) G.E. quality plan is required as follows. A) rolled rings and round, flat forgings: 0 degrees and 180 degrees testing of all specifications properties, including "capability" test. B) other forgings: testing of specification properties, including "capability", to represent the thickest and thinnest sections. C) flash welded ring: base metal and weld test per specification, including "capability" test. 4) standard notes applicable to raw materials subtiers per S-306 Table II applies: lab certs, first article, billet/bar cert retention and NDT certs.
0000000033 *05/10/2002*	The following requirements apply for castings. 1) applicable specifications, S-310, S-202, S-258 and S-301. 2) raw material is for a G.E. application. 3) raw material source substantiation required per S-310, Table 1. 4) standard notes applicable to raw materials subtiers per S-310, Table III applies: certificates of test, laboratory test report, radiographic film and quality plan and first article inspection.
0000000034 *05/10/2002*	All material or processing performed under this order that have been qualified by substantiation testing shall not be deviated from without written approval from GKN.
0000000035 *08/24/2011*	Engineering Source Approval per PWA 370 applies to this purchase order. Supplier shall maintain a system that ensures Pratt & Whitney approval of manufacturing plans and that all process audit requirements are met. Copies of P&W form 4692 shall be furnished to GKN Aerospace Quality Engineer prior to shipment of first lot and after any subsequent changes.
0000000036 *09/23/2010*	This order has Key Process Characteristics (KPC's) designated on the drawing and / or GKN operation sheet that require Process Certification per the requirements of PWA 79345 and UTCQR -09.1. Supplier shall submit a process control plan for all features designated as KPC's. Process control plan must meet the requirements of UTCQR-09.1 and be approved by GKN Engineering.
0000000037 *07/12/2011*	This order requires part qualification per the requirements of PWA specification ASQR-09.2 UTC, Production Part Approval Process (UPPAP). Documentation per the requirements of ASQR-09.2 must be submitted to and approved by GKN and PWA.
0000000038 *09/06/2011*	This order requires PWA Source Qualification per PWA 300 for one or more processes required by drawing. Supplier must provide written notification to GKN within 24 hrs of any change to PWA Source Qualification status.
0000000039 *11/14/2013*	All distributors used in fulfillment of this order must maintain 3rd party certification to AS9100 or AS9120.
0000000040 *11/14/2013*	If utilized, delegation of verification of product requires compliance to AS9015 – Supplier Self Verification Process, Delegation Programs.

0000000041
02/10/2015

All Digital Product Definition (DPD), Model Based Definition (MDB) or Coordinate Measurement System (CMS) data or models furnished under this order shall be controlled, used, transferred or converted pursuant to the Boeing D6-51991, QUALITY ASSURANCE STANDARD FOR DIGITAL PRODUCT DEFINITION AT BOEING SUPPLIERS or equivalent documented procedure.

Data or models supplied shall not be distributed to sub-tier suppliers or third parties without written GKN permission.

0000000042
07/06/2015

The supplier shall maintain a Quality System in compliance with the requirements of UTC specification ASQR-01 and ASQR-01-AA. Articles contained within this purchase order are for United Technologies Aerostructures (UTAS) end use and must be controlled per applicable purchase order requirements.

0000000043
10/15/2020

Warning: This document contains technical information whose export is restricted by the U.S. Export Administration Regulations (EAR). This technical information is prohibited from being disclosed by any means to a non-US person, whether in the United States or abroad, without appropriate authorization or exemption from the US Government. Violations of these export laws are subject to administrative, civil and/or criminal penalties. Disseminate in accordance with the provision of AFR 80-34/DOD Directive 5230.25.

0000000047
02/19/2014

The Boeing Company is the end item customer for the product related to this order. Supplier shall comply with the latest revision of Boeing specification D6-1276.

This is a “No Change” program and as such the supplier must not deviate in any way from the approved fixed process related to this order.

The supplier shall submit to GKN, prior to production, a revision controlled fixed process document. The document shall be of sufficient detail to provide a step by step description of the way in which the component is produced; the necessary process equipment, methods, parameters (including tolerances), specifications; manufacturing location, control techniques, all levels of sub-tier suppliers, and sub-tier part numbers as applicable.

The fixed process shall have a unique identity and revision level, and a separate document is required for each part number. Additionally, all documents referenced by the fixed process document shall have unique identity and be revision controlled. The supplier must maintain control of the fixed process internally to assure no unauthorized changes can be made.

The fixed process requires approval of both GKN Aerospace and The Boeing Company. The plan once submitted and approved by GKN and Boeing must not be modified in any way including changes the supplier may consider administrative. Absolutely no changes of any kind may be made to the fixed process without approval of GKN and Boeing.

If the supplier determines any changes are needed, the fixed process document must be submitted with a new revision, a description of changes made and reasons for the change. Changes shall not be implemented until approved by GKN and Boeing.

0000000048
02/19/2014

Aerojet is the end item customer for the product related to this order. This is a “No Change” program and as such the supplier must not deviate in any way from the approved fixed process related to this order.

The supplier shall submit to GKN, prior to production, a revision controlled fixed process document. The document shall be of sufficient detail to provide a step by step description of the way in which the component is produced; the necessary process equipment, methods, parameters (including tolerances), specifications; manufacturing location, control techniques, all levels of sub-tier suppliers, and sub-tier part numbers as applicable.

The fixed process shall have a unique identity and revision level, and a separate document is required for each part number. Additionally, all documents referenced by the fixed process document shall have unique identity and be revision controlled. The supplier must maintain control of the fixed process internally to assure no unauthorized changes can be made.

The fixed process requires approval of both GKN Aerospace and Aerojet. The plan once submitted and approved by GKN and Aerojet must not be modified in any way including changes the supplier may consider administrative. Absolutely no changes of any kind may be made to the fixed process without approval of GKN and Aerojet.

If the supplier determines any changes are needed, the fixed process document must be submitted with a new revision, a description of changes made and reasons for the change. Changes shall not be implemented until approved by GKN and Aerojet.

0000000049
06/26/2026

See note 50.

0000000050
06/26/2026

The supplier shall submit to GKN, prior to production, a manufacturing plan, identified with a unique number and revision level, detailing all materials, operations, processes and tooling required to produce the hardware. Plan shall include any sub-tier's manufacturing plan. Manufacturing plan shall show evidence of quality review and shall include inspection steps necessary to ensure quality. Manufacturing plan shall be approved by GKN prior to supplier beginning production. Once approved, no changes in sequence or methods are permitted without written approval from GKN.

0000000051
07/15/2010

Registered components. The supplier shall submit to GKN, prior to production, a manufacturing plan identified with a unique number and revision level, detailing:

A) the methods and the type of critical processing to be used.
B) the location within the processing cycle where inspections will take place.
C) the attributes of the products which will be inspected at each inspection point.
D) the materials and methods of preservation and packaging to be used to protect the product.
E) the handling and transport action precautions necessary to protect the product.

This plan shall include any sub-tier's manufacturing plan. Once submitted and approved by GKN, revisions or variations to any of the above listed controls shall not take place without prior written approval from GKN.

0000000052
0715/2010

Supplier shall maintain an effective system for tracking Material Safety Data Sheets (MSDS) for all products supplied to GKN. An appropriate MSDS will be provided to GKN, prior to the first delivery, for all products required by 20 CFR 1910 to have a MSDS.

The supplier shall provide the MSDS information unless a written waiver has been received from GKN. Failure to provide the required MSDS will result in the prohibition of orders released to the supplier.

In addition, all chemical substances or products that have chemical substances as ingredients, that are supplied from outside the United States, must have a certification from the supplier that the material is on the Toxic Substance Control Act (TSCA) inventory list. Materials imported from outside the United States that are not on the TSCA inventory list cannot be sent to GKN. Payments for materials sent to GKN that are not properly identified on the TSCA list will be withheld pending approval and acceptance by GKN environmental engineering.

0000000053
05/10/2002

Distributors shall meet the applicable requirements of SAE STD AS 7103, Level C - "Requirements For Accreditation of Pass Through Distributors" or AS 7104 - "Requirements For Accreditation of Full Distributors" and/or applicable portions of SAE STD AS 9000 - "Aerospace Basic Quality System Standard".

Distributor shall assure traceability of all purchased products to the source of manufacture and their related acceptance documents. The actual source of all material shall be identified.
Distributor shall not modify, rework, or repair material in-house or by subcontracting unless approval is obtained from the Purchaser or the work is performed by the actual manufacturing source of the material.

NOTE NUMBER	NOTE TEXT

0000000054
03/20/2014

Rolls-Royce is the design authority and final customer for products/services covered by this purchase order. Special process controls in accordance with RRP 50000 apply to this order. Quality systems compliance to Rolls-Royce SABRe is mandatory. The supplier shall ensure compliance to the requirements herein and they shall ensure that any external subcontract activities are also compliant as applicable. Additionally, for special processes covered by RRP 50000 and prior to undertaking any work, the supplier:

1) Shall have a current quality systems approval to SABRe directly from Rolls-Royce.
2) Shall have a current technical approval for the process to be applied directly from Rolls-Royce.
3) Shall have a specific to part/process work instruction (Datacard) with current approval for the specific revision granted by either 1) a GKN Aerospace Chem-tronics Inc. representative holding the applicable technical delegation authority from Rolls-Royce or 2) directly from Rolls-Royce.
4) As required by component definition, shall also submit to GKN a Fixed Process Document per the requirements of RRES 90000. Supplier shall not begin any work until the Fixed Process Document is approved by GKN and Rolls Royce, as applicable.

0000000055
07/15/2010

GKN purchasing shall not place orders with any other supplier(s) than specified on the GKN BOM, Manufacturing or Quality Notes.

0000000056
07/15/2010

Documentation of raw material certifications (chemical and mechanical properties) and variable inspection (including laboratory testing) data are required for 100% of the items fabricated under this purchase order. These documents shall be kept on file at the supplier's facility for 30 years from the delivery date and shall be available immediately to GKN upon request.

0000000058
10/10/2012

Thermocouple Certification requirements:
Per AMS 2750 - 3.1.1.1 - Calibration: Sensors shall have a certificate of compliance or report of calibration that identifies the following:

- Source of the calibration data
- Nominal test temperature
- Actual test temperatures readings
- Calibration technique
- Correction factor for each calibration temperature traceable to NIST or other recognized National Standard.

Calibration technique shall comply with ASTM E 220, ASTM E 207, or other national standard.

0000000059
04/21/2022

Fabricated parts and / or raw materials procured in fulfillment of the purchase order must include the original mill source's certified measured test report for the raw material used. Test report must provide mill identity and mill chemical and mechanical properties defined by the specification and furnished to GKN for each heat lot number. Certifications and/or test reports as applicable shall also be provided for any additional processing performed on the parts or raw material required by purchase order, drawing or specification (i.e. NDT, Coatings, Heat Treat, etc.).These documents shall be kept on file at the supplier's facility and shall be available immediately to GKN upon request.

0000000060
06/26/2026

Fabricated parts and / or raw materials procured in fulfillment of the purchase order must include the original mill source's certified measured test report for the raw material used. Test report must provide mill identity and mill chemical and mechanical properties defined by the specification and furnished to GKN for each heat lot number.

Documented evidence of Supply Chain Traceability (Chain of Custody) must be provided for all raw material. This refers to documentation of all supply chain intermediaries and significant handling transactions for each shipment of material to GKN, such as from original manufacturer to distributor, distributor to distributor or from excess inventory to broker or distributor. Documentation shall have the physical manufacturing and / or distribution address locations clearly identified; listing the “received from” and “ship to” location addresses and dates of transfer where applicable.

Certifications and/or test reports as applicable shall also be provided for any additional processing performed on the parts or raw material required by purchase order, drawing or specification (i.e. NDT, Coatings, Heat Treat, etc.).

NOTE NUMBER	NOTE TEXT
	When applicable, supplier shall ensure only GKN / End Item Customer (i.e. PWA, GE, etc.) approved sources as defined in Purchase Order, Drawing or Specification are used in fulfillment of this purchase order. Certifications supplied for source-controlled material or processes must show the manufacturing address and / or cage code as applicable to be able to verify compliance with this requirement.
0000000061 *07/15/2010*	Raw material certifications of chemical and mechanical properties shall be confirmed by an analysis from an independent laboratory not associated with the producer of the material. Testing shall be to the extent required to verify full compliance with the material specification. (e.g. AMS - acceptance tests). Obtain written approval from GKN for any laboratory planned for use. A Copy of the independent laboratory certification overchecks shall be included in the C of C package.
0000000062 *06/26/2026*	The supplier shall provide sufficient material per heat lot for complete testing by GKN. Material supplied shall bear the original mill markings, when possible, and shall have the physical attributes (e.g. grain direction, size, etc…) to support the testing requirements of the applicable specification(s). If original mill markings can not be included on the sample it shall be marked with the specification number, revision and heat lot number for traceability. Sample size shall be sufficient to accommodate all specification acceptance tests. A test piece 6” in length for bar or extrusion and 6” x 2” for sheet or plate should be considered minimum sample sizes unless otherwise specified. Grain direction shall be marked on the test piece.
0000000063 *09/06/2016*	Supplier shall certify that only GKN furnished material was used in the fabrication of the product. The supplier's certification must list GKN assigned “R” numbers, serial numbers and/or work order numbers as applicable to the order and delivery. Note: It is understood (by the supplier and GKN) that with the submittal of the Certificate of Compliance the supplier is providing legal confirmation that all delivered item(s) comply with the purchase order requirements and that “the material has not been subjected to any processes which may have chemically or metallurgically altered the material, except as allowed by purchase order, specification or drawing”.
0000000064 *05/10/2002*	Supplier shall submit a certification which includes a cure of manufacturing date for material whose acceptability is controlled by age. Both the cure date and shelf life shall be listed on the container and on the document certifying the material.
0000000065 *07/06/2015*	If the supplier is a PWA approved LCS supplier reports shall include an equivalent statement to "Parts have been controlled to P&W requirements for LCS per P&W MCL Manual Section F17". If quality note 61 and 62 is a requirement of this order it shall be waived. LCS suppliers need not submit independent lab certification or test material to GKN. Test reports per Q-Note 60 are not required for the following, provided an acceptable LCS Certification is provided: Metallic Raw Material – Castings and Forgings Individual shipments of assemblies, nonmetallic raw materials or finished detail parts/processing Test reports per Q-note 60 with actual results must be provided with each shipment for Metallic Raw Material - Bar, Sheet or Tubing. Note to GKN purchasing: Direct procurement of raw material by GKN in the form of sheet, bar, tubing, wire and plate must be from LCS sources only and certified to LCS unless approved by PWA. Procurement of finished parts need not be from an LCS source or certified to LCS although it is preferred. Material / Parts are for P&W end use.
0000000066 *05/10/2002*	Raw or partially machined castings require laboratory retest. The retest will be no less than that required to verify the material is of proper type and composition and is otherwise suitable for production. Sample tabs or

products may be used for hardness, chemical and/or metallurgical verification inspection unless directed otherwise by engineering requirements. These tabs shall be taken from each production/heat lot. This is in addition to supplier's material certification.

0000000067
05/10/2002

Any laboratory testing that may be required by General Electric, must be performed by a laboratory that has been approved to GE S-400. All certifications of compliance for laboratory testing must state; "GE S-400 approved".

0000000068
03/20/2018

If the revision levels of specifications relevant to this order are not specified, the latest revision shall be used and documented on all certifications. To comply with this requirement the relevant specifications and revision level must be reported on the vendor's C of C, inspection reports, first articles, lab reports, etc. The supplier is responsible to assure they are working to the latest specification revisions as required by purchase order.

The supplier shall retrieve the latest revision of OEM specifications (i.e. GE, PWA, Rolls Royce, etc.) directly from the OEM whenever possible. For suppliers without access to these specifications, GKN shall supply the specifications as requested by the supplier.

Suppliers may verify the latest revision level of additional OEM specifications utilizing the "GKN Spec List" located on the GKN Supplier Portal. If the required specification(s) are not on the "GKN Spec List" it is the supplier's responsibility to periodically request confirmation of the latest revision level to assure they are working to the latest revision until such time as the spec(s) are added to the list.

Applicable industry standards (AMS, AS, MS etc.) are the responsibility of the supplier to obtain and keep up to date as required. These standards will not be provided by GKN.

0000000074
09/05/2012

Material must be shipped in a manner to ensure compliance to temperature sensitivities stated in the material specification (storage temperatures). Suitable temperature monitoring devices shall be included with each package(s) as applicable to validate environmental compliance.

Shipments shall be clearly identified as containing temperature sensitive material by identifying the outside of the shipping container with a label or stencil to indicate temperature sensitive material controls are required when received at GKN. Label or stencil to be placed on two sides of the shipping container to assure it is visible when received at GKN.

0000000075
07/15/2010

Supplier must include with its certification package, test reports provided from an independent "NADCAP" approved materials testing laboratory.

0000000076
12/08/2010

This purchase order is for item(s) identified as "Critical" per Rolls Royce. Supplier shall include the word "Critical" on all of its certification package documents including, but not limited to: Certificate of Compliance, Test Reports, Inspection Reports, First Article Reports, Lab Reports, Etc.

0000000084
01/03/2013

Specialty metals incorporated in articles delivered in fulfillment of this contract shall be melted in the United States as required by DFARS 252.225-7008 and DFARS 252.225-7009 (Replaces previous reference to DFARS 252.225-7014).

The following Defense Federal Acquisition Regulation Supplement (DFARS) requirement applies to this agreement, and is binding on Supplier and each of its subcontractors:

252.225-7008 Restriction on Acquisition of Specialty Metals
252.225-7009 Restriction on Acquisition of Certain Articles Containing Specialty Metals

Access to the applicable DFARS can be achieved via the website below:

http://farsite.hill.af.mil/vfdfara.htm

The Supplier shall include the terms of this clause in every subcontract or purchase order awarded under this contract in accordance with DFARS 252.225-7008 and 252.225-7009.

0000000085 *03/20/2018*

Documented inspection data is required for 100% of the features defined in the applicable drawing / specification(s) for products manufactured under this purchase order. Objective evidence of inspection shall be kept on file at the supplier's facility and shall be made available to GKN upon request.

Sampling is not allowed on any features unless approved in writing by GKN and/or OEM as applicable.

0000000086 *07/15/2010*

Variable inspection data for each individual characteristic is required for 100% of the items manufactured under this purchase order. Sampling may be implemented where the process capability is known and is approved by GKN, prior to application, provided it's use assures fulfillment of purchase order requirements.

A photocopy of the variable inspection data (100%) or variable sampling data shall accompany the shipment of parts.

Sampling of nondestructive testing (NDT) is not allowed.

0000000087 *05/10/2002*

Full compliance to the engineering requirements shown on the purchase order and drawing is mandatory. Material review board acceptance or repair of any drawing feature or referenced specification is not permitted.

0000000088 *07/06/2015*

For tools fabricated per this purchase order, supplier to provide a complete dimensional inspection report and certificate of conformance to the applicable part drawing.

The dimensional inspection report shall include inspection of no less than 100% of the dimensions – features indicated as “Periodic Inspection” items on the applicable drawing called out on the purchase order. In addition to the “Periodic Inspection” items the inspection report shall include inspection of all assembled datums, assembled basic dimensions and assembled feature locations such as tool balls and locators required to position the part. The inspection report shall also include all bolt holes and features necessary to mount and restrain tooling to machine or surface.

0000000096 *07/15/2010*

The following information is derived from GKN - Chem-tronics, Inc. Operations Manual O.M. 4.4.32 as it pertains to certified cutting tools only. If the supplier/manufacturer has any questions regarding these requirements, contact the relevant purchasing agent. The supplier awarded this order must comply with the following requirements.

8.6 Supplier/Manufacturer

8.6.1 The tooling supplier/manufacturer is responsible for assuring any/all CT purchase order and drawing requirements are met by providing a "certificate of compliance" referencing the appropriate part number and revision level with each shipment. In addition, a dimensional report must also be supplied for those identified features as instructed via CT drawing for each individual tool.

8.6.2 The tooling supplier/manufacturer must physically identify designated "certified cutting tool(s)" with the tool/file number and associated revision that matches the CT supplied drawing.

8.6.3 The tooling supplier/manufacturer to physically identify tool with a unique identifying mark/designator, assigned by the supplier, to allow full traceability of each tool back to the associated order. (P.O./certificate of conformity/dimensional report/etc.)

8.7 Regrinds/Resharps

8.7.1 CT’s tooling engineer is responsible for identifying/authorizing those tools which can be resharpened and communicating such tools to the appropriate department(s).

8.7.2 Any/all regrinds/resharps must be in accordance with the CT supplied drawing requirements.

8.7.3 The supplier is responsible for assuring any/all CT drawing requirements are met by providing a "certificate of compliance" referencing the appropriate part number and revision level with each shipment. In

NOTE NUMBER	NOTE TEXT
	addition, a dimensional report must also be supplied for those identified features as instructed via CT drawing for each individual tool. 8.8 Test-type development tools 8.8.1 Any/all test-type tools shall be identified by the tooling engineer and stipulated as such via the purchase order. 8.8.2 Supplier to physically identify any/all "test-type" tools used for development by including the word "test" on the tool appropriately. These tools must not be released into production/stores/tool crib and/or used on components without written authorization by the cognizant ME/QE/MQE.
0000000097 *07/15/2010*	All perishable cutting tools supplied under this purchase order shall conform to the requirements of GKN - Chem-tronics, Inc. Operation Manual 4.4.33 and Chem-tronics, Inc. drawings where applicable. When tools are reground/reconditioned, original manufacturer's specifications also apply. Where tools are designated "Certified Cutting Tools" operations manual 4.4.32 section 8.0 is an additional requirement to those stated above (see note code 96).
0000000099 *11/06/2019*	A PWA SQAR/QASR/DQCR buyoff is required before this hardware can ship to GKN. Documentation of the buyoff is required. See below for additional requirements / exceptions: 1. Finished Parts - An approved PWA eSRI is required per PWA Bulletin 545 dated 3-26-2015 for PW Source coverage at a GKN 2nd tier supplier. This q-note only applies if an approved PWA eSRI has been provided by GKN to the 2nd tier supplier. If an eSRI has not been supplied by GKN, this note shall be considered not applicable to the shipment. 2. Raw Material (e.g. castings and forgings) - A PWA approved eSRI is not required for raw material where material is defined by a PW design / drawing. (Ref: PWA Bulletin 545A dated 3-5-2016). PWA buyoff is required on those items when this note is called out on the GKN PO. 3. This note is not applicable to standard hardware (fasteners).
0000000100 *07/15/2010*	This order is subject to GKN source inspection. GKN quality control must be notified forty-eight (48) hours in advance of the time the articles or processes are ready for inspection or test.
0000000101 *07/15/2010*	Government inspection is required prior to shipment from your plant. Upon receipt of this order promptly notify and furnish a copy to the government representative normally servicing your plant so that government inspection can be appropriately planned. If a government representative does not service your plant, contact the appropriate government inspection office in your area. If you cannot locate the government office, our purchasing agent should be notified immediately. If nonconformances are detected upon receipt at GKN, you will be notified via a supplier corrective action request and must coordinate corrective action with your government representative.
0000000115 *11/06/2019*	A first article inspection shall be performed with variable data recorded for all drawing characteristics and referenced specifications per AS9102, latest revision. Unless otherwise specified by GKN, First Article to be documented using AS9102 Forms 1, 2 and 3. First article to be approved by GKN prior to shipment and release of multiple units for production. If supplier’s production process or cost prohibits a one piece production run, the smallest production run possible should be used to produce the first article part to avoid risk to material and lead time. Copy of the first article inspection report with evidence of GKN approval must accompany the first shipment and the packing slip must vividly indicate that this shipment is a "first article". Parts are not to be shipped to GKN without documented approval of the First Article report unless authorized in writing by the GKN Quality department. Evidence of such authorization shall be included in the shipment.

After acceptance of the required First Article the Supplier does not need to resubmit for future shipments as long as there are no changes. Changes or events that require a new First Article to be performed are defined in AS9102. If any of the events defined in AS9102 occur, a new FAIR must be submitted and approved by GKN prior to shipment.

For GKN El Cajon POs Only: Final acceptance of the first article shall be documented using the GKN FAAF form. The form shall be filled out by the cognizant GKN SQE for the supplier and signed to indicate acceptance with any limitations noted on the form. The GKN approved FAAF form shall be sent with the first article shipment along with supporting documents (i.e. AS9102 forms, certs, etc.). Ref: SQAR 210/211 and supplemental SQAR specs.

0000000125
04/28/2020

A Certificate of Compliance (C of C) shall be provided with each delivery of any item(s), material(s) and/or service(s). This can be a separate document or integrated into the packing sheet/list.

- Note: It is understood (by the supplier and GKN) that with the submittal of the Certificate of Compliance the supplier is providing legal confirmation that all delivered item(s) comply with the purchase order requirements and to the following:
  - The product has not been subjected to any processes which may have chemically or metallurgically altered the material, except as allowed by the purchase order and its subordinate requirements.
  - When the subcontract activity involves GKN furnished material (i.e. subcontract services), the supplier is certifying that the specific GKN furnished material (furnished for the specific contract) was used in the fabrication of the product. No substitutions or replacements are allowed without written approval of GKN.

All Certificates of Compliance shall include as a minimum:

1) Supplier's company name and address
2) Name of manufacturer, if different from supplier
3) GKN Purchase order number and (when applicable) P.O. line item(s).
4) Certification date.
5) Supplier's Pack Slip Number
6) Quantity.
7) Part number and revision as assigned by the purchase order.
8) Any additional information as specified by the purchase order and its subordinate requirements.
9) All NCR (Nonconformance Report) number(s) applicable to the delivered item(s). ie: "SG0001234 Applies"
10) A statement that materials and/or services provided is in conformance with the purchase order requirements. Listing any special process by specification and revision level. (ie: NDT, Heat treat, etc.)
11) Signature and/or stamp of Supplier's authorized Quality representative (secured computer-generated signatures are acceptable).
12) The information from "A" or "B" below as applicable.

A. **Supplier Procured materials (raw, component or assembly) shall include:**

- The drawing designation, drawing revision and engineering change order(s) as applicable.
- Material specification and revision for each unique material included in the delivered product.
- Specific material lot or material batch numbers for each unique material included in the delivered product.
- Serialization if specified by the governing requirements.

B. **Processing or service shall include (GKN Supplied Material):**

- GKN assigned "R" numbers, serial numbers and/or work order numbers as applicable to the order and delivery.

- A list of any GKN work instruction(s) invoked by the purchase order (e.g. operation sheet, etc.) including their revision levels as applicable.
- Specifications and revision levels for all special processes invoked by the purchase order.

Supplier shall have a process to assure all shipping documents and certificates are reviewed by a quality assurance representative or trained delegate for completeness and accuracy prior to shipment. Supplier shall maintain objective evidence of this requirement and shall be subject to review by GKN Supplier Quality if requested.

Suppliers shall provide (2) copies of all required documents with each shipment. One copy shall be placed inside the packaging with the parts / material and one copy attached to the outside of the packaging when possible. Suppliers who provide documentation electronically to GKN are only required to send one set of documents with the shipment as the electronic copy counts as the second set. Any exceptions to this requirement must be approved by GKN prior to shipment.

0000000126
10/10/2012

Supplier will be provided with a quantity of GKN standard "certificates of compliance" forms. Supplier shall complete the "C of C" as appropriate for the requirements of the order. The "C of C" must reflect the revision level of all drawings and/or specifications that form a part of the order, be signed by a responsible representative, and submitted with each shipment of items under this order.

0000000127
04/28/2020

A Certificate of Compliance (C of C) shall be provided with each delivery of any item(s), material(s) and/or service(s). This can be a separate document or integrated into the packing sheet/list.

- Note: It is understood (by the supplier and GKN) that with the submittal of the Certificate of Compliance the supplier is providing legal confirmation that all delivered item(s) comply with all purchase order requirements and to the following:

  - If the revision levels of specifications and / or drawings relevant to this order are not specified, the latest revision at the time of PO acceptance was used in the fabrication of the product.
  - The product has not been subjected to any processes which may have chemically or metallurgically altered the material, except as allowed by the purchase order and its subordinate requirements.
  - When the subcontract activity involves GKN furnished material (i.e. subcontract services), the supplier is certifying that the specific GKN furnished material (furnished for the specific contract) was used in the fabrication of the product. No substitutions or replacements are allowed without written approval of GKN.

All Certificates of Compliance shall include as a minimum:

1) Supplier's company name and address
2) GKN Purchase order number and (when applicable) P.O. line item(s).
3) Certification date.
4) Supplier's Pack Slip Number
5) Quantity.
6) Part number and revision level.
7) Any additional information as specified by the purchase order and its subordinate requirements.
8) All NCR (Nonconformance Report) number(s) applicable to the delivered item(s). ie: "SG0001234 Applies"
9) A statement that materials and/or services provided is in conformance with the purchase order requirements.
10) Signature and/or stamp of Supplier's authorized Quality representative (secured computer-generated signatures are acceptable).
11) The information from "A" or "B" below as applicable.

A. **Supplier Procured materials (raw, component or assembly) shall include:**
- Serialization if specified by the governing requirements.

B. **Processing or service shall include (GKN Supplied Material):**
- GKN assigned "R" numbers, serial numbers and/or work order numbers as applicable to the order and delivery.
- A list of any GKN work instruction(s) invoked by the purchase order (e.g. operation sheet, etc.) including their revision levels as applicable.

Supplier shall have a process to assure all shipping documents and certificates are reviewed by a quality assurance representative or trained delegate for completeness and accuracy prior to shipment. Supplier shall maintain objective evidence of this requirement and shall be subject to review by GKN Supplier Quality if requested.

Suppliers shall provide (2) copies of all required documents with each shipment. One copy shall be placed inside the packaging with the parts / material and one copy attached to the outside of the packaging when possible. Suppliers who provide documentation electronically to GKN are only required to send one set of documents with the shipment as the electronic copy counts as the second set. Any exceptions to this requirement must be approved by GKN prior to shipment.

0000000130
09/23/2010

For Rolls Royce parts only. Group 1 or Group 2 bonding is called out on the drawing for this part. Bond testing is required by the specification and shall be defined by Rolls Royce and communicated to the supplier. Test requirements shall be incorporated into the manufacturing plan and approved by Rolls Royce, or the approved GKN delegate, prior to production of parts.

A test certificate for each test performed to satisfy the requirements shall be provided with each shipment for each part or batch as determined by the testing plan laid out by Rolls Royce Labs. A batch is defined as a group of parts cured simultaneously in the same pressure system and oven for the same period of time.

If the approved test plan does not require testing of each part or batch, the most recent test certificate shall be supplied with each shipment and shall include the date of the next required test for reference.

All testing shall be carried out by a Rolls Royce or NADCAP approved testing facility.

0000000134
09/06/2016

Suppliers that process parts utilizing furnace thermocouples only with no load thermocouples attached to the parts or mandrel shall perform a profile survey using mandrels defined on the GKN op sheet or equivalent. GKN to review and approve results of profile survey prior to running production parts.

Suppliers that utilize load thermocouples attached the part or mandrel for each furnace load as defined by the GKN operation sheet are not required to submit a profile survey to GKN for approval prior to processing parts.

"Profile Survey" is defined by GKN as a furnace load run without a part utilizing the form mandrel with load thermocouples attached to the thinnest and thickest section of the mandrel. Survey shall provide evidence that time and temperature requirements of the GKN operation sheet will be met during processing of parts.

0000000135
05/10/2002

Supplier shall submit certifications with procedure number and revision level, for thermal treatment, including items as specified below:

0000000136
05/10/2002

Time/temperature chart for furnace.

0000000137
05/10/2002

Independent time/temperature for furnace load.

0000000138
05/10/2002
Sketch of thermocouple placements with key to multipoint recording, if utilized.

0000000139
05/10/2002
Vacuum certification.

0000000140
05/10/2002
Provide the following documentation with each part delivered.
1. Furnace load charts (time/temp)
2. C of C stating;
   A. Braze temp
   B. Braze soak time
   C. Cool down temp/time
   D. Part thermocouple recordings
   E. Part number/P.O. number/operation revision level

0000000150
07/15/2010
Supplier shall submit NDT test results (performed by a NADCAP and / or OEM certified NDT facility) identifiable with acceptance requirements as specified below:

0000000151
07/15/2010
Radiographic certification in accordance with ASTM E2104 of the current revision level and/or all purchase order referenced specifications and revision level for each radiographic inspection to be performed.

0000000152
07/15/2010
Penetrant inspection certification in accordance with ASTM E1417 of the current revision level and/or all purchase order referenced specifications and revision level for each penetrant inspection to be performed.

0000000153
07/15/2010
Magnetic particle certification in accordance with ASTM E1444 of the current revision level and/or all purchase order referenced specifications and revision level for each magnetic particle inspection to be performed.

0000000154
07/15/2010
Ultrasonic inspection certification in accordance with all purchase order referenced specifications and revision level for each ultrasonic inspection to be performed.

0000000155
07/15/2010
Pressure test certification in accordance with all purchase order referenced specifications and revision level for each pressure test inspection to be performed.

0000000156
07/15/2010
Leak test certification in accordance with all purchase order referenced specifications and revision level for each leak test inspection to be performed.

0000000157
07/15/2010
Radiographic film must conform to ASTM E1815 of the current revision level, class I or class special film speeds, only (A,B,C or D).

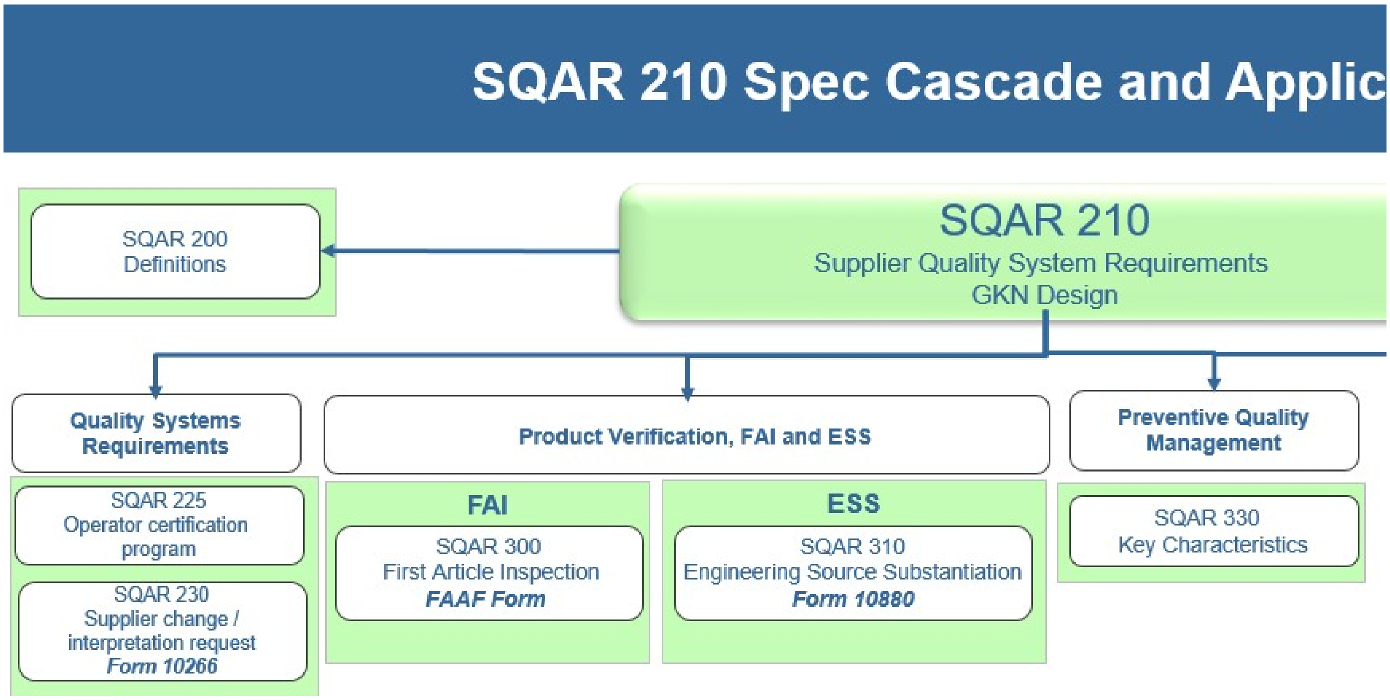
0000000158
07/15/2010
Radiographic technique sheets must conform to the requirements of ASTM E2104 of the current revision level and/or all purchase order referenced specifications and revision level for each radiographic inspection to be performed.

0000000165
05/10/2002
Supplier shall submit a certification of plating per applicable specification.

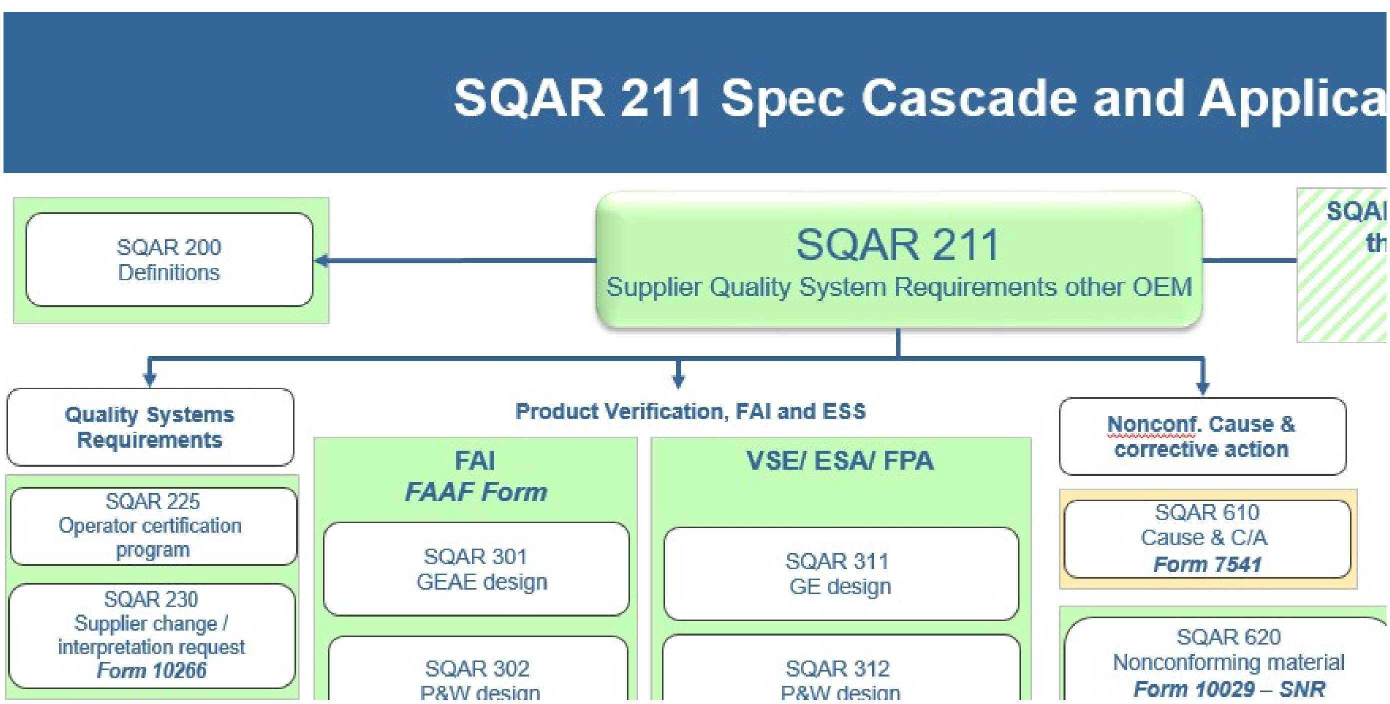
0000000166
05/10/2002
Supplier shall submit a certification of anodize per applicable specifications.

NOTE NUMBER	NOTE TEXT
0000000185 *07/15/2010*	A certified tool list and an 8" x 10" minimum photograph of each GKN owned tool must be presented at time of shipment. Digital photographs are acceptable.
0000000186 *07/15/2010*	Acceptance of production tooling on this order shall be contingent upon inspection and acceptance by GKN. The tooling and dimensional samples produced by this tooling must conform to the tolerance limits of the engineering drawings and specifications stated on this order.
0000000187 *05/10/2002*	All weld filler material shall be controlled per PWA MCL F-53 and PWA-300.
0000000188 *05/10/2002*	Weld wire shall be identified in accordance with AMS 2816.
0000000189 *05/10/2002*	An over check sample of no less than 6 inches in length shall be provided for each heat lot of weld wire. This sample shall be attached to the outside of the weld wire packaging to allow over check testing without disturbing the packaging of the production material.
0000000999 *05/10/2002*	No quality notes apply

Appendix 1



Appendix 2



THIS DOCUMENT IS SUBJECT TO PERIODIC REVISION.

These quality notes are revision sensitive. It is the supplier's responsibility to ensure that the most recent version of this document is "in hand" upon acceptance of a GKN Aerospace purchase order. The applicable revision of this document directly correlates to the purchase order acceptance date. Use of this web-based document is contingent upon specific reference to the same via the GKN Aerospace Purchase Order.

CONTROLLED RESIDENCE:

GKN Aerospace Supplier Portal Level 2 – Log on ID and Password required. Contact GKN Purchasing Representative to request access.

https://teamplace.gaes.gknaerospace.com/sites/supplierportallevel2/SitePages/home.aspx

or

https://www.gknaerospace.com/supplier-portal/americas/united-states/

(Click on El Cajon Section to find latest revision Quality Note listing)

The Quality Notes listed in this document are applicable to purchase orders for the following GKN Aerospace sites only:

GKN Aerospace – El Cajon (Including the Aviation Repair Service Group)
Also known as GKN Aerospace Chem-tronics Inc.
1150 West Bradley, El Cajon, California 92020, United States of America
Tel.: +1 619 448 2320 ¦ Fax: +1 619 258 5270 ¦ Website: www.gkn.com/aerospace/Pages/default.aspx

GKN Aerospace – Mexicali
Circuito Siglo XX1 no. 1974, Parque Industrial EX-XX1, Colonia Rivera, Mexicali BC, Mexico 21290
Tel.: +52 686 905 5700 ¦ Website: www.gkn.com/aerospace/Pages/default.aspx

Revision History

4-21-2022 – Removed GKN Santa Ana references from q-note document.

- Add requirement to Q-note 1 to require GKN part number to be identified on raw material
- Update Q-note 59 and 60 to clarify certification requirements for raw material and processing

6-26-2026 – Q-Note 1 remove statement about documented approval scopes.

- Q-note 49 – Add reference to note 50.
- Q-note 50 – Clarify that GKN approval is required prior to beginning production.
- Q-note 60 – Add requirements for Chain of Custody and approved sources
- Q-Note 62 – Add note requiring grain size to be marked on the test piece
- Updated website references for Supplier Portal Level 2 and GKN Supplier Website