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Title: **Quality Procurement Requirements and Clauses**

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**Revision History**

Rev	Amendment	Author	Date
-	Original version	A.Salduskin	02-Feb-2016
A	Revised clauses 120, 121, 122, 150, 180, 200, 230	A.Salduskin	10-Jun-2016
B	Added clause 310, 311 and 312. Corrected clause 290 title	A.Salduskin	27-Jul-2016
C	Added clause 271	A.Salduskin	16-Sept-2016
D	Sect (6.1) revised to stipulate that QE's specify appropriate quality clauses in Syteline when notified by Engineering.	A.Salduskin	17-Nov-2016
E	Clause 110 and 110 updated with new AS/ISO revisions. Clause 180 reformatted – added TGST operation sketch # & rev. Clause 190 clarified lapse in production requirement. Clause 270 & 271 – clarified wording in definition of counterfeit. Clause 270 – added “and Materials” after Suspect Parts. Clause 271 – Updated clause application to “ <i>all TGST PO's for Nuclear and Non-Nuclear grade material / parts / services</i> ”. Clause 280/290 – removed reference to 110/111/112 clauses. Clarified section (6.2)	A.Salduskin	29-June-2018
F	Added Sect (6.6) on relevant technical data. Added Clause 320 – Product safety and conformity. Clause 404 – Added sub-tier requirements for Honeywell PO's. Clause 405 – Added sub-tier requirements for PWA PO's. Clause 406 – Added sub-tier requirements for GE PO's.	I.Kanevsky	11-Dec-2018
G	Removed Triumph name and replaced with NWI Precision. Updated (6.4) removed Triumph website and the directions to this standard and added the NWI website. Removed the wording for (7) Training (7.1) This document shall be provided for familiarization to any new employee required to perform/participate in these tasks. (7.2) QA/Purchasing employees are to be familiar with this document. Added the wording (7.1) Training shall be provided to any new employee required to perform these tasks. (7.2) Employees should be retrained to this document whenever significant changes to it have been made. In clause 280 and 290 updated spec ANS/ISO/IEC 17025:2005 to ANSI/ISO/IEC 17025:2017	I.Kanevsky	26-Aug-2019
H	Clause 404 - SPOC 002 spec revision change. Clause 405 - PW-QA 6088 spec revision change. Clause 406 – S-1000, S-1001 & S-1002 specs revision change.	I.Kanevsky	09-Jan-2020
I	Section (3) Added statement that clauses in this standard do not apply to NWI non-inventory PO's. Clause 407: Added Supplier Employee Awareness	K. Sherman	19-Mar-2020
J	Revised Clause 270 applies to all inventory NWI PO's for Aerospace parts.	K. Sherman	29-Apr-2020
K	Clause 406 - S1000, S1001 and S1002 specs revision change	I.Kanevsky	05-Feb-2021
L	Clause 408- Added sub-tier requirements for LH PO's. Clause 402- QC-397 spec revision change.	A. Mousavi	09-Mar-2021
M	Clause 406 - S1000 and S1002 specs revision change. Added Section (6.7) requiring QEs to update PO's if clauses have been changed.	K. Sherman	20-May-2021
M.1	Replaced Z299.1, 2, 3, 4, with N299.1,2,3,4	K. Sherman	16-Aug-2023
N	Section (6.4): “Any applicable documents/ specifications/ standards provided herein” was added. Revised Clauses (401,402,403,404,405,406 and 408) from “REV Letter/No ” to “the latest revision/issue”.	I. Kanevsky	30-Apr-2024



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Rev	Amendment	Author	Date
O	Clause 120- Added requirement for sub-suppliers to submit supporting documents for review and approval. Clauses 121 & 122 -Added requirement for sub-suppliers to submit supporting documents for review and approval. Removed requirement to submit ITP.	D. Bhanushali	08-Sep-2025
O.1	Clause 403- SABRE Edition 3 the latest revision replaced with SABRE the latest revision	Anshuman Patel	08-Jan-2026
P	Amended clause 151, Added Clauses 409, 410, 411, 412 ,413 ,414, 415, 416, 417	Shivam Naik	03-Mar-2026



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**Title: Quality Procurement Requirements and Clauses**

**1. Purpose**

The purpose of this document is to define the Quality Procurement Requirements and Clauses called out on NWI Precision Purchase Orders (PO).

**2. Table of Contents**

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**3. Scope**

The scope of this document applies to all NWI Purchase Orders. It covers the standard clauses only; it does not cover special requirements that may be imposed on NWI and its suppliers by NWI customers. Other than for calibrated items, the quality procurement clauses in this standard do not apply to NWI non-inventory PO's.

**4. Definitions**

N/A

**5. References**

N/A

**6. Procedure**

- 6.1. NWI quality procurement requirements (Clauses) are communicated to suppliers through the purchase order issued by the purchasing department. The Quality Engineers shall specify the appropriate quality clauses in Syteline when notified by a Manufacturing Engineer that a new operation item master has been released or revised and requires quality clauses.
- 6.2. This document acts as a 'menu' of available Clauses, which can only be assigned by a member of the quality department. Only those Clauses referenced on the purchase order apply to the order. This member may use the standard clauses defined in this document and/or include additional requirements not covered in this document in written form (e.g., special NWI/customer specific requirements).

*Note: Red notes following each Clause are for internal use and are added to aid in selection of applicable clauses.*

- 6.3. The supplier is responsible for complying with all the requirements called out by the NWI purchase order.



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- 6.4. The Supplier is responsible for obtaining and using only the latest revision of this standard and any applicable documents/specifications/standards provided herein. This standard can be obtained at the NWI website [www.nwiholdings.com](http://www.nwiholdings.com) (also defined on the NWI purchase order).
- 6.5. If any section of the quality procurement requirements is not understood, the supplier is directed to contact NWI purchasing agent and/or Quality representative and request clarification.
- 6.6. The manufacturing engineering department shall provide relevant technical data required, such as specifications, drawings, operational sketches or work instructions.
- 6.7. Whenever this standard is updated and the update involves the addition of a new clause or the deletion of a current clause, the quality engineers shall update their current PO's and the clauses listed in the folder "Standard QA Clauses for PO's".

**7. Training**

- 7.1 Training shall be provided to any new employee required to perform these tasks.
- 7.2 Employees should be retrained to this document whenever significant changes to it have been made.



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## 8. Clauses definition

### 100 – FOREIGN OBJECT DEBRIS (F.O.D.)

Supplier shall assure cleanliness of products provided.

Delivered product must be clean and free from any debris, such as machined chips, burrs, grinding dust, forming materials, corrosion, oil and other foreign material on surface to prevent F.O.D. entrapment. All shipment packaging must be F.O.D. compliant and free of any debris such as staples, clips, etc.

*Clause applies to all NWI PO's.*

### 110 – QUALITY MANAGEMENT SYSTEM (QMS) - REQUIREMENT FOR SUPPLIERS

Seller shall develop and maintain a QMS that as a minimum meets ISO 9001:2015 or ISO 17025 requirements. ISO 9001:2008 accepted until 30 Sept-2018 only.

*Clause applies to all NWI PO's for Industrial parts.*

### 111 – QUALITY MANAGEMENT SYSTEM (QMS) – AEROSPACE PROGRAMS

Suppliers of materials and services for Aerospace programs shall demonstrate current certification to AS9100D, ISO 9001:2015 or ISO 17025 standard. AS9100C or ISO 9001:2008 accepted until 30 Sept-2018 only.

*Clause applies to all NWI PO's for Aerospace parts and materials.*

### 112 – QUALITY MANAGEMENT SYSTEM (QMS) – NUCLEAR PROGRAMS

Suppliers of material and services for the Nuclear programs need to be qualified by NWI in accordance with ASME BPVC Section III, NCA-3800, NCA-4000, NQA-1 and CSA N299.0, as applicable.

*Clause applies to all NWI PO's for Nuclear and Non-Nuclear grade material / parts / services.*

### 120 – APPROVAL OF ITP, PROCEDURES AND ALL SUPPORTING DOCUMENTS – NUCLEAR PROGRAMS (CSA N299.1 – N299.3)

Upon the receipt of Purchase Order issued by NWI, the supplier shall submit its Inspection and Test Plan (ITP) along with operating procedures and supporting documents — including, but not limited to, templates for Dimensional and Visual Inspection Reports, NDE Reports, and other relevant inspection record/forms to NWI and/or its customers for acceptance and establishment of Verification, Hold and Witness points on the ITP. ITP shall include subcontracted services. Supplier shall also submit their sub-tier supplier's Quality certificates, operating procedures and supporting documents.

All applicable NDE procedures shall be submitted together with NDE report templates, NDE personnel qualification and certification records. NDE procedures must be prepared by a Level II or Level III certified operator (qualified in accordance with CGSB 48.9712 or SNT-TC-1A, as applicable) and approved by a Level III operator.

No work can be initiated by the supplier until the ITP, procedures and supporting documents applicable to the scope of work are returned to the supplier with acceptance granted by NWI and/or its customers.

Once the submitted ITP, procedures and supporting documents are accepted by NWI and/or its customers, no changes are allowed except when authorized by NWI or their customer in writing.

*Clause applies to all NWI PO's for Nuclear and Non-Nuclear grade material / parts / services requiring CSA N299.1 - N299.3 Quality Program.*

### 121 – APPROVAL OF PROCEDURES AND ALL SUPPORTING DOCUMENTS – NUCLEAR PROGRAMS CSA N299.4 (Nuclear grade material/parts/services)

Upon the receipt of Purchase Order issued by NWI, the supplier shall submit its operating procedures and supporting documents — including, but not limited to, templates for Dimensional and Visual Inspection Reports, NDE Reports, and other relevant inspection record/forms to NWI and/or its customers for acceptance. Supplier shall also submit their sub-tier supplier's Quality certificates, operating procedures and supporting documents.

All applicable NDE procedures shall be submitted together with NDE report templates, NDE personnel qualification and certification records. NDE procedures must be prepared by a Level II or Level III certified operator (qualified in accordance with CGSB 48.9712 or SNT-TC-1A, as applicable) and approved by a Level III operator.



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No work can be initiated by the supplier until the procedures and supporting documents applicable to the scope of work are returned to the supplier with acceptance granted by NWI and/or its customers.

Once the submitted procedures and supporting documents are accepted by NWI and/or its customers, no changes are allowed except when authorized by NWI or their customer in writing.

*Clause applies to all NWI PO's for Nuclear grade material / parts / services requiring CSA N299.4 Quality Program.*

**122 – APPROVAL OF PROCEDURES AND CHECKLISTS – NUCLEAR PROGRAMS CSA N299.4 (Non-Nuclear grade material/parts/services)**

Upon the receipt of Purchase Order issued by NWI, the supplier shall submit its operating procedures and supporting documents — including, but not limited to, templates for Dimensional and Visual Inspection Reports, NDE Reports, and other relevant inspection record/forms to NWI and/or its customers for acceptance. Supplier shall also submit their sub-tier supplier's Quality certificates, operating procedures and supporting documents.

All applicable NDE procedures shall be submitted together with NDE report templates, NDE personnel qualification and certification records. NDE procedures must be prepared by a Level II or Level III certified operator (qualified in accordance with CGSB 48.9712 or SNT-TC-1A, as applicable) and approved by a Level III operator.

No work can be initiated by the supplier until the procedures and supporting documents applicable to the scope of work are returned to the supplier with acceptance granted by NWI and/or its customers.

Once the submitted procedures and supporting documents are accepted by NWI and/or its customers, no changes are allowed except when authorized by NWI or their customer in writing.

*Clause applies to all NWI PO's for Non-Nuclear grade material / parts / services requiring CSA N299.4 Quality Program.*

**130 – NOTIFICATION OF CHANGES BY THE SUPPLIER**

During performance of the contract, the Supplier is required to give NWI written notice when making any changes in the systems including;

- name change
- address change
- changes to processes and/or procedures previously approved by NWI
- changes in management personnel that have responsibility for quality of product or service furnished to NWI.

NWI may elect to conduct an on-site evaluation to determine the impact of such changes on previous approvals, potential effect on product or service quality levels.

*Clause applies to all NWI PO's.*

**140 – NOTIFICATION OF ANY HOLD AND WITNESS POINTS – NUCLEAR PROGRAMS**

Supplier shall provide a minimum of ten (10) business days' notice for Source Inspection of all WITNESS points as identified on approved Inspection and Test Plan (ITP) or Checklist. All data for HOLD and VERIFICATION points shall be submitted timely as it becomes available.

*Clause applies to all NWI PO's for Nuclear and Non-Nuclear grade material / parts / services.*

**150 – FLOW DOWN TO SUB-TIERS**

All quality clauses in this purchase order/contract apply to the supplier whose name appears on the purchase order; as well as, all sub-tier suppliers. The supplier shall notify NWI of any usage of sub-tiers to complete the order and shall flow down these requirements to the respective sub-tiers.

*Clause applies to all NWI PO's for Aerospace and Nuclear material / parts / services.*



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**151 – SURVEILLANCE OF SUB-SUPPLIERS**

All material, products and services subcontracted by the supplier shall be evaluated to determine the amount of inspection, surveillance and audit needed at the sub-supplier's facilities.

Required inspection, surveillance and audit shall be carried out. All reported non-conformances shall be evaluated for disposition.

NWI reserves the right to conduct on-site or remote audits of the Supplier's established processes at a minimum frequency of once every three (3) years. Additional audits may be conducted based on risk, performance concerns, regulatory requirements, significant process changes, or customer flow-down requirements.

*Clause applies to all NWI PO's for Nuclear grade material / parts / services.*

**152 – REVIEW OF SUPPLIER'S PURCHASE ORDER TO SUB-SUPPLIERS**

Supplier shall submit to NWI its unpriced Purchase Orders to sub-suppliers for NWI review prior to P.O. release. This is to ensure that NWI quality requirements are incorporated into Supplier's procurement documents.

*This clause applies to NWI PO's for Nuclear and Non-Nuclear grade material / parts / services when Suppliers are expected to procure material / parts / services critical to ensuring compliance with contractual requirements (e.g., subcontracted material, testing, examination, special processes).*

**157 – FIXED PROCESS CONTROLLED PRODUCTS/SERVICES**

Prior to processing, supplier is required to submit the proposed technical plan/process to NWI for review and approval. Following NWI approval, the supplier shall process parts as per the technical plan. If any changes are required to the process, the supplier shall notify NWI with the proposed changes.

If the PO is a repeat order, the supplier may use a previously approved technical plan/process, provided the PO/NWI requirements / part configuration / specifications have not changed.

*Clause applies to all NWI PO's for parts controlled under fixed processes.*

**160 – NON-CONFORMING PRODUCT & MATERIAL REVIEW BOARD**

All products or processes found by the supplier or sub-tier as nonconforming to the engineering drawings, specifications, or purchase order requirements, shall be identified, segregated and reworked or replaced with conforming material, products or processes prior to delivery to NWI. When a request for NWI disposition is being submitted, a completed non-conformance report shall also be provided.

Products and processes defined by Clause 157 cannot be reworked or replaced with conforming material without prior approval by NWI and/or its customers.

The Supplier is responsible to segregate and secure parts to prevent their delivery to NWI until the non-conformance report, showing product disposition, is returned to the Supplier. Such non-conformance must be reported in quality records required for submission with a shipment and only items accepted by NWI and/or its customers are allowed to be shipped. A 'Use-as-Is' or 'Repair' disposition does not relieve the supplier of the legal responsibility and liability for such material, products or processes.

*Clause applies to all NWI PO's.*

**170 – NOTIFICATION OF ESCAPES / REPEATED ISSUES**

It is the responsibility of the supplier to notify NWI immediately of any items that were already shipped and later discovered by the supplier to be defective. This notification of escape shall include as a minimum: purchase order number, part number, serial number, suspected quantity, and discrepancy noted.

Every NC where the supplier is confirmed to be at fault or repeated issues indicated by NWI requires an 8D Corrective Action Report within the following timeframes: Containment (2 days from NC origination); Root Cause Analysis (15 days from NC origination); Corrective Action Plan (30 days from NC origination); Implementation with Evidence (60 days from



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NC origination). Supplier response time and response quality will be monitored and may affect supplier performance scorecard.

*Clause applies to all NWI PO's.*

**180 - CERTIFICATE OF CONFORMANCE CONTENT**

Certificates of Conformance shall accompany each shipment of parts and shall include:

**A. STANDARD REQUIREMENTS:**

1. Supplier's name and address.
2. NWI purchase order number and NWI's customer's purchase order number if listed on PO.
3. NWI/Customer Part Number, supplier's Part Number (if applicable) and Revision Number (if applicable).
4. NWI Operation Sketch number and revision, if listed on PO.
5. Part designation when applicable (e.g., Primary, Critical Part, Fatigue Controlled, Life Safety etc.)
6. Quantity and Serial numbers processed and shipped.
7. Supplier Job/Batch Numbers, Certificate Numbers, Heat Numbers or Cure Dates, as applicable.
8. The applicable specifications/standards - that the work was performed to including revision.
9. For all fixed processes, list the process name/number, including revision levels, as well as the fixed process approval number - that the work was performed to.
10. Certificate of Conformance must contain a statement that all inspections, processing and tests have been performed as required, and meet requirements specified in engineering drawings, specifications and/or purchase order.
11. Each shipment must also be accompanied by **legible and reproducible** copies of all raw material, processing, test and hardware certifications needed to produce the part in accordance with the engineering drawings, specifications and/or purchase order requirements.
12. Original and signed Certificate of Conformance with the title of the **Authorized Quality Representative** must be submitted with each shipment.

**B. SPECIFIC REQUIREMENTS WHEN APPLICABLE TO WORK PERFORMED:**

1. For coating and surface enhancement processes - e.g., peening, painting, plating, coating, thermal spray, DFL, tungsten carbide etc. provide actual results for coating thickness, actual peening intensities achieved etc.
2. For material orders - Material Test Report including material chemistry, mechanical test results and other relevant test results, as required by the governing material specification.
3. For heat treatment processes – provide heat treat data, test results and charts, as required by the governing process specification.

*Clause applies to all NWI PO's.*

**181 – CERTIFICATE OF CONFORMANCE and MATERIAL TEST REPORT – NUCLEAR PROGRAM; NON-NUCLEAR GRADE MATERIALS**

In addition to the items listed in the Clause 180, the CofC and/or CMTR must also include:

1. References to the release dates or revision levels of applicable drawings and specifications, material grade and / or ASME Code effective date with addenda, as applicable.
2. Reference to Supplier's Quality Assurance Manual and its revision / release date.
3. Reference to qualification of the Supplier performed by NWI, including the date of qualification and the qualified Quality Program.

Each CofC and/or MTR should be submitted together with all relevant NDE operator qualifications and certifications (CGSB or ASNT certificate, as applicable) and their current acuity eye check result for the current year.

All quality records and reports applicable to the content of CofC and/or MTR shall be submitted to NWI for review and retention.

*Clause applies to all NWI PO's for Non-Nuclear grade material / parts / services in addition to Clause 180.*

**182 – CERTIFICATE OF CONFORMANCE and CERTIFIED MATERIAL TEST REPORT – NUCLEAR PROGRAM; NUCLEAR GRADE MATERIALS**

In addition to the items listed in the Clause 180, the CofC and/or CMTR must also include:

1. References to the release dates or revision levels of applicable drawings and specifications, material grade and / or ASME Code effective date with addenda, as applicable.



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2. Reference to Supplier's Quality Assurance Manual and its revision / release date.
3. Reference to qualification of the Supplier performed by NWI, including the date of qualification and the qualified Quality Program.
4. Suppliers of Nuclear grade material / parts / services who are Certificate Holders shall list their Certificate number and its expiration date.

Each CofC and/or CMTR should be submitted together with all relevant NDE operator qualifications and certifications (CGSB or ASNT certificate, as applicable) and their current acuity eye check result for the current year.

All quality records and reports applicable to the content of CofC and/or CMTR shall be submitted to NWI for review and retention.

*Clause applies to all NWI PO's for Nuclear grade material / parts / services in addition to Clause 180.*

### **190 – FIRST ARTICLE INSPECTION**

NWI requires full compliance to **SAE AS9102 using the latest revision**, "Aerospace First Article Inspection Requirement". First Article Inspection (FAI) is required for the initial and periodic first article qualification and acceptance of production first articles manufactured by a supplier for the first time, produced to engineering drawings and specifications supplied by NWI, and/or purchase order clauses. All subsequent parts shall be manufactured using the same production processes, procedures and equipment. Any deviation from such a plan must be submitted in writing to the Purchasing Department for approval by Quality Management at NWI. Delta FAI shall also be supplied in the AS9102 format.

The supplier is responsible to supply the following with the parts:

1. A completed FAI report using forms listed in the AS9102. Forms cannot be modified to change the instructions provided in the SAE AS9102 specification.
2. Copy of Ballooned Drawing with each characteristic or requirement clearly marked with a unique identifier number. The number may be circled or boxed for easy visual identification.
3. New First Article shall be prepared for those parts/assemblies where a lapse in production occurs for a period greater than two (2) years. All forms shall be completed either electronically or in permanent ink.

*Clause applies to selected NWI PO's for Aerospace parts.*

### **191 – DIMENSIONAL INSPECTION REPORT**

Each supplied product shall be delivered together with a Dimensional Inspection Report. Valid calibration certificates for measuring and test equipment used during such dimensional inspection must be on file and available for viewing by NWI, if requested.

*As applicable for Aerospace and Industrial parts.*

### **192 – DIMENSIONAL INSPECTION REPORT – NUCLEAR PROGRAMS**

Each supplied product shall be delivered together with a Dimensional Inspection Report along with valid calibration certificates for measuring and test equipment used during such dimensional inspection. This requirement does not apply to non-precision devices, e.g., measuring tapes.

*As applicable for Nuclear and Non-Nuclear grade material / parts / services.*

### **200 – MATERIAL IDENTIFICATION AND TRACEABILITY**

Positive material identification and traceability must be maintained throughout the entire production and testing cycle along with traceability of process operation cycle vs part S/N (e.g., S/N per heat load).

*Clause applies to all NWI PO's.*

### **210 – RIGHT OF ENTRY**

It is agreed that in the execution of this purchase order, NWI, its customers, agents and consultants, including Regulatory Agencies, will be permitted on site for the purposes of viewing, performing surveillance, inspecting, testing and/or accepting the Work, including to monitor compliance with the Contract Documents and any applicable quality assurance program.

*Clause applies to all NWI PO's.*



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**220 – RECORD RETENTION – AEROSPACE PROGRAMS**

In addition to records and certifications specified in the NWI Purchase Order, any additional records relating to work performed by the supplier must be kept complete and available to NWI at the suppliers' facility, including without limitation, all records, reports, data and other information necessary to assure compliance with purchase order requirements. The records maintained at the supplier's facility must be maintained for a **minimum** of 40 years and retrievable within 24 hours, unless otherwise specified.

*Clause applies to all NWI PO's for Aerospace parts and materials.*

**221 – RECORD RETENTION – INDUSTRIAL PROGRAMS**

In addition to records and certifications specified in the NWI Purchase Order, any additional records relating to work performed by the supplier must be kept complete and available to NWI at the suppliers' facility, including without limitation, all records, reports, data and other information necessary to assure compliance with purchase order requirements. The records maintained at the supplier's facility must be maintained for a **minimum** of 7 years and retrievable within 48 hours, unless otherwise specified.

*Clause applies to all NWI PO's for Industrial parts.*

**222 – RECORD RETENTION – NUCLEAR PROGRAMS**

In addition to records and certifications specified in the NWI Purchase Order, any additional records relating to work performed by the supplier must be kept complete and available to NWI at the suppliers' facility, including without limitation, all records, reports, data and other information necessary to assure compliance with purchase order requirements. The records maintained at the supplier's facility must be maintained for a **minimum** of 5 years and retrievable within 48 hours, unless otherwise specified.

*Clause applies to all NWI PO's for Nuclear and Non-Nuclear grade material / parts / services.*

**230 - KEY CHARACTERISTIC REQUIREMENTS**

When Key Characteristics (KC) are identified on engineering drawings, specifications or on the purchase order, supplier is required to meet the minimum required process capability of  $Cpk \geq 1.33$ , using results of a minimum of 30 production parts. Until the minimum Cpk has been achieved all key characteristics or process results shall be 100% inspected. Supplier is responsible to ensure that its sub-tiers satisfy the same requirement. With each delivery, the supplier shall furnish a certification, indicating that all key characteristics/processes meet or exceed the minimum Cpk. For those KC that do not meet the minimum Cpk requirement, the supplier shall provide a statement that each KC or process has been 100% inspected. 100% inspection is not a substitute for Key Characteristic control.

*Clause applies to all NWI PO's for Aerospace parts.*

**240 - UNAUTHORIZED USE OF NONCONVENTIONAL MANUFACTURING METHODS**

Unless otherwise specified on the engineering drawing, specification or purchase order, supplier or sub-tiers shall not use any nonconventional manufacturing or processing methods, such as electrical discharge machining (EDM), electro chemical machining (ECM), laser or abrasive water jet cutting, flame spray coatings, etc., without proper written authorization from NWI.

*Clause applies to all NWI PO's.*

**250 – CURE DATES FOR SHELF-LIFE LIMITED ITEMS**

Elastomers - Unless otherwise specified on the purchase order or contract, cure date must be eight (8) quarters or less. Expirees (Paints, Primers, Adhesives, Epoxies, Sealants, etc.) - 100% -80% of shelf life must be remaining upon date of receipt at NWI.

*Clause applies to all NWI PO's for shelf-life limited items.*

**260 – PACKAGING, PACKING AND MARKING REQUIREMENTS**

Seller shall ensure that sufficient control is maintained during packaging to prevent any damage (corrosive or physical), deterioration or substitution of the material or product due to shipping/handling. All shipping documents, certifications, test and inspection records, etc., shall be delivered together with the material / product.

*Clause applies to all NWI PO's for Nuclear and Non-Nuclear grade material / parts / services.*

**270 – COUNTERFEIT, FRAUDULENT OR SUSPECT ITEMS (CFSI's)**

Seller agrees and shall take reasonable actions to ensure that Counterfeit, Fraudulent or Suspect Parts and Materials are not contained in products delivered to NWI. By definition:



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1. "Counterfeit" – Any product made in imitation of what is genuine with the intent to defraud; or one whose material, performance, or characteristics are knowingly misrepresented by a supplier at any level in the supply chain.
2. "Fraudulent" – Any product that is intentionally misrepresented with intent to deceive. Fraudulent items include items provided with incorrect identification or falsified, or inadequate certification.
3. "Suspect" – Any product that is suspected of being counterfeit, fraudulent, or substandard.

*Clause applies to all inventory NWI PO's for Aerospace parts.*

**271 – COUNTERFEIT, FRAUDULENT OR SUSPECT ITEMS (CFSI's)**

Seller agrees and shall take reasonable actions to ensure that Counterfeit, Fraudulent or Suspect Parts and Materials are not contained in product delivered to NWI. By definition:

1. "Counterfeit" – Any product made in imitation of what is genuine with the intent to defraud; or one whose material, performance, or characteristics are knowingly misrepresented by a supplier at any level in the supply chain.
2. "Fraudulent" – Any product that is intentionally misrepresented with intent to deceive. Fraudulent items include items provided with incorrect identification or falsified, or inadequate certification.
3. "Suspect" – Any product that is suspected of being counterfeit, fraudulent, or substandard.

Statement regarding actions taken to prevent delivery of Counterfeit, Fraudulent or Suspect Parts shall be included in the Certificate of Conformance.

*Clause applies to all NWI PO's for Nuclear and Non-Nuclear grade material / parts / services.*

**280 – PROCUREMENT OF M&TE CALIBRATION SERVICES**

Calibration services to be performed by a calibration laboratory accredited to ANSI/ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

The published scope of accreditation for the calibration laboratory shall cover the required measurement parameters, ranges, and uncertainties.

Master Equipment used for calibration must conform and be traceable to NIST. Calibration certificate shall document reference standards along with measuring and test equipment utilized to calibrate the gauge and shall include as-found and as-left data.

Calibrated equipment shall be properly packaged and crated securely for shipment (reference PO Clause 260)

NWI and its customers reserve the right to perform surveillance inspection at the supplier's facility (reference PO Clause 210).

*Clause applies to all NWI PO's for calibration services of Measuring & Test Equipment*

*Note: The following additional QA Clauses shall be referenced in the PO: 150; 170; 210; 260; 270; 407.*

**290 – PROCUREMENT OF DISCS, RINGS & GAUGE BODIES**

All Discs/Rings/Gauge bodies and/or members shall be made of materials whose coefficient of thermal expansion is within the range of  $5$  to  $7 \times 10^{-6}$  in/in°F ( $9$  to  $12.6 \times 10^{-6}$  mm/mm°C) and hardness of minimum 58 HRC.

The contact, measuring and reference surfaces of the gauge shall be hardened or otherwise treated to prevent wear or damage.

Calibration services to be performed by a calibration laboratory accredited to ANSI/ISO/IEC 17025:2017, "General Requirements for the Competence of Testing and Calibration Laboratories."

The published scope of accreditation for the calibration laboratory shall cover the required measurement parameters, ranges, and uncertainties.

Master Equipment used for calibration must conform and be traceable to NIST. Calibration certificate shall document reference standards along with measuring and test equipment utilized to calibrate the gauge and shall include as-found and as-left data.

Gauges/Discs/Rings and/or shall be properly packaged and crated securely for shipment (reference PO Clause 260)

NWI and its customers reserve the right to perform surveillance inspection at the supplier's facility (reference PO Clause 210).

*Clause applies to all NWI PO's for procurement of new discs, rings and gauge bodies*

*Note: The following additional QA Clauses shall be referenced in the PO: 150; 170; 210; 260; 270; 407.*

**300 – CUSTOMER END USE**

FOR CUSTOMER END USE ONLY.



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**NOTE:** Replace CUSTOMER with actual customer's name (i. e., For PWA end use only). Clause applies to all NWI PO's for Aerospace parts.

**310 – NWI QUALITY ASSURANCE SOURCE**

NWI Quality Assurance Source is a requirement of this order. Arrangements must be made promptly with NWI Quality Assurance Representative, with provision for the necessary access to the work, so that appropriate NWI Quality Assurance Source can be accomplished prior to release.

*Clause applies to all NWI PO's where NWI QA is a requirement.*

**311 – GOVERNMENT QUALITY ASSURANCE SOURCE**

Government Quality Assurance is a requirement of this order. Arrangements must be made promptly with the Government Quality Assurance Representative for your area or facility, with provision for the necessary access to the work, so that appropriate Government Quality Assurance can be accomplished prior to release.

*Clause applies to all NWI PO's where government QA is a requirement.*

**312 – CUSTOMER QUALITY ASSURANCE SOURCE**

Customer Quality Assurance Source is a requirement of this order. Arrangements must be made promptly with NWI Customer Quality Assurance Representative for your area or facility, with provision for the necessary access to the work, so that appropriate NWI Customer Quality Assurance Source can be accomplished prior to release.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**320 – PRODUCT SAFETY AND CONFORMITY**

This product is for use in aviation. Therefore material, manufacturing and workmanship of the highest quality standards are essential in order to ensure product safety and conformity.

*Clause applies to all NWI PO's for Aerospace parts and materials.*

**401 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS - BELL**

Bell Helicopter Supplier Quality Requirements Manual SQRM-001 **the latest revision** applies to this order.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**402 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – WILLIAMS INTERNATIONAL**

Williams International Quality Procurement Requirements QC-397 **the latest revision** applies to this order.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**403 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – ROLLS-ROYCE**

Rolls-Royce Supplier Management System Requirements SABRE **the latest revision** applies to this order.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**404 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – HONEYWELL**

Honeywell Supplier Management System Requirements SPOC 002 **the latest revision** applies to this order.

SPOC Applicable Clauses: 1.0 and 2.0, 100, 106, 124, 127, 128, 129, 130, 140, 142, 149, 154, 165, 200, 239, 267, 354, 418, 419, 420.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**405 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – PWA**

PWA Supplier Quality System Requirements ASQR-01, and Quality Assurance Specification PW-QA 6088 **the latest revisions** apply to any PWA orders.

A sub-tier, upon acceptance of this purchase order, agrees to comply with all requirements set forth in DFARS 252.204-7012 Safeguarding Covered Defense Information and Cyber Incident Reporting to the extent applicable. If this order references a U.S Government contract number, it is a rated order certified for national defense use, and you are required to follow all the requirements of the defense priorities and allocations system regulations (15 CFR 700)

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*



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**406 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – GE**

S-1000 GE Aviation Quality System Requirements for Suppliers, **the latest revision** applies to this order.

S-1001 Supplier Source Substantiation, **the latest revision** applies to this order.

S-1002 Supplier Requirements for Characteristic Accountability, Verification, and Quality Planning, **the latest revision** applies to this order.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**407 – SUPPLIER EMPLOYEE AWARENESS**

Suppliers shall ensure that their employees are aware of:

- Their contribution to product and/or service conformity
- Their contribution to product safety
- The importance of ethical behavior.

*Clause applies to all NWI PO's*

**408 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – LEONARDO HELICOPTERS**

Leonardo Helicopters Quality Requirements for Suppliers QRS-01 **the latest issue** applies to this order.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**409 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – KHI (Kawasaki Heavy Industries Ltd.)**

Upon invoking this clause on NWI's Purchase Order, the vendor shall adhere and comply with the following applicable KHI QMS standards. Compliance to the standard referenced herein shall not relieve the Vendor from its obligation to comply with all applicable industry-recognized QMS requirements or other mandated certifications and regulatory requirements.

**\*For special processors or processor requiring KHI approval of technique sheets, refer to clause 410.**

Procurement Control Requirements Part 3 Supplement 8 – KHI Supplemental Q.C. Requirements for the Supplier on BK117 Program latest revision applies to this order.

KQMS-7100 KHI Quality Management Specifications Purchasing – applies to all vendors performing *Special Processes* or *Special Manufacturing Process Operations* defined under this standard, **the latest revision** applies to this order.

KQP-005 Requirement for Corrective Action and Preventive Action - all vendors deemed as special processors under KQP-002 or processes requiring KHI approvals of technique sheet shall support Corrective/preventive action for the Findings/Recommendations as prescribed under KQP-005 requirements.

**\*All other vendor contractually providing services to NWI that impact end user product (dimensionally, metallurgically) or providing sub-assembly component used for assembling final product shall also adhere to KQP-005.**

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**410 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – KHI (Kawasaki Heavy Industries Ltd.) Cont.**

KQP-002 Requirements for Special Process and Specified Work - applies to all vendors providing *Special Processes* listed under this standard *and or providing Specified Work* that requires KHI approval, **the latest revision** applies to this order.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*



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### 411 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – MTU

Upon invoking this clause on NWI's Purchase Order, the vendor shall adhere and comply with the requirement to MTU's MTN94111- Vendor Requirements, **the latest revision** applies to this order.

**Compliance Scope of MTN94111-Vendor Requirements:** This standard follows same structure as ISO9001, 9100, 9145 and AS13100 and adds supplemental MTU specific requirements that are not covered in the other standards. Supplier shall comply with the applicable clauses of MTN94111 (Figure 1) based on their designated types indicated under MTN94111 Sec. 1.1 & 1.2.

- All suppliers designated **Types 1, 2A, 2B, 3, 4 & 5** under AS9100 & AS13100 shall assess their QMS compliance with **Sections 1,2,3, Chapter A Part 1, Chapter B, & Chapter C** of MTN94111.
- For all suppliers designated **Types 6, 7, 8, 9** under MTN94111, shall assess their QMS compliance with **Section 1,2,3 & Chapter A Part 2** of this standard.

**Additional MTN94111** – All supplier designated **Types 1, 2A, 2B, 3, 4 & 5 shall comply** with AS13100 requirements. Refer to applicable **clause 412** of this standard.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

### 412 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – MTN94111\_Supplementary (Bieblatt)

This clause covers supplementary requirements covered in MTN94111BBL#'s (Bieblatt)

**MTN94111BBL1 Vendor Quality Assurance Requirement-** *Outlines list of requirements expected to be submitted to MTU from sub-vendor in support of production approval (PAR, - Production Approval Record) or overhaul approval (OAR- Overhaul Approval Record) process. Suppliers supporting through special processes or processes categorized as CMT controlled operations under MTV3 (clause 413 & 414) are subjected to these requirements during PAR submission phase.*

*Under Sec. 3.3.4.1. – All CMT operation (or sub-operations) that are subcontracted to vendors shall conduct a yearly self-assessment using the FSP/CMT questionnaire (FSP: Flight Safety Part) in annex C on at least one part number per parts family.*

*Sec. 8.3.2 – Outlines mandatory requirements for forging blank suppliers.*

**MTN94111BBL17 General Packaging Directives-** *MTU general packaging criteria are applicable to NWI and all members of its supply chain supporting the production. All supplier procuring the product shall adhere to MTN94111BBL17 in maintaining product internal, external part packaging and original packaging of the products during handling, in-house transportation and shipping or storage of parts.*

**Combined Provisions of MTN94111 Sec. 8.4.1, MTN94111BBL1 Sec. 3.3.4.1. and NWI's Supplier Quality Manual (STA-QA-0333, Table 3 - Tier 2 & 3 Actions)**

*- NWI holds rights to perform on-site FSP/CMT self-assessment audit for suppliers with lower performance score with MTU's concurrence. If the supplier has already been subjected to an audit by MTU anytime during the last 12 months the requirement for a self-assessment to be conducted at the supplier may be waived.*

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

### 413 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – MTV3\_CMT Controlled Processes

**MTV3 Manufacturing approval and CMT control of critical processes:** *Outlines criteria for production approval (PAR, - Production Approval Record) or overhaul approval (OAR- Overhaul Approval Record) process. Suppliers performing special processes or processes categorized as CMT controlled operations under MTV3 (refer to sec. 4.2 for extent of CMT per part classification) are subjected to MTV 3 requirements for PAR submission process.*

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*



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**414 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – MTV3\_\_Supplementary (Beiblatt)**

**MTV3BBL3 (Beiblatt 3) List of special processes** - MTV3 Beiblatt 3 itemized list of special processes that are subject to MTV3 define CMT controls to the extent required for PAR approval.

For all processes and products that are subject to control as per MTV3 Beiblatt 3 and in the case of call-outs on drawings, in process specifications (MTV) and in procurement specifications (MTL), the supplier is required, prior to commencing production, to submit a method of manufacturing sheet for approval in accordance to MTV3 CMT controls.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**415 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – MTU / GE shared Design / Process Authority**

This clause is specifically applicable to suppliers performing special processes or CMT controlled process for an MTU contracted part with General Electric and MTU sharing joint design and processing authority.

Supplier must comply with the applicable **GE QMS Specs. S-Spec-1,2&3** as stated in NWI **PO Clause 406.**

In addition, supplier is required to comply with **MTN94111, MTV3 and relevant BBL#'s** stated under **Clauses 410, 411, 412, 413 & 414** of this standard.

In event of conflict between clause 406 (GE S-Spec's) and 410 (MTU Specs.), criteria of **406 (GE S-Specs)** shall take precedence.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**416 – CUSTOMER SUPPLIER QUALITY REQUIREMENTS – Mitsubishi Power Aero LLC**

**ISQR 01(Replaces PWA ASQR-01) Industrial Supplier Quality System Requirements the latest revision shall be applicable:** All supplier furnishing product or and to the material, processes and services employed in the manufacturing of products shall adhere to requirement of ISQR 01.

**ISQR 02 (Replaces PWA 300) Certification, Testing and Control of Materials, Parts, Processes, and Repairs for Industrial Engines Under Sec. 4.9.1 of ISQR 01,** supplier performing special processes shall comply with requirements of ISQR 02 for source qualification in accordance with product classification.

**ISQR 05 MPA Handling Storage Packaging:** This document applies to suppliers and their subcontractors who furnish product or materials to Mitsubishi Power Aero.

**ISQR 06 (Replaces PW-QA 6088) Quality Req for Control of Non-Conforming Articles by Supplier:** Applicable to all member of NWI supply chain supporting manufacturing and furnishing of its products.

**ISQR-08 MPA Industrial Control of Special Identification and Serialization:** Applicable to all member of NWI supply chain supporting manufacturing and furnishing of its products.

**ISQR 11 QUALITY REQ FOR SUPPLIER QUALITY TOOLING REQUIREMENTS:** Applicable to all supply chain members developing tooling and fixture to manufacture its products.

**ISQR 12(Supersedes ESA per PWA370, when invoked) Engineering Source Approval (ESA) For Industrial Engines:** Applicable to all members of supply chain seeking "Frozen Process" or Technique sheet approvals.

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*

**417 – NWI QUALITY CLAUSE FOR AS13100 COMPLIANCE (AESQ Mandated compliance)**

**AS13100: AESQ Quality Management System Requirements for Aero Engine Design and Production Organizations: This SAE Aerospace Standard (AS) establishes supplemental requirements to AS9100 & 9145 and applicable to organization and their scope of work defined in this standard.**

**Upon invoking this clause, suppliers shall demonstrate compliance with AS13100 by using RM13009 self-assessment checklist in accordance with the organization types mentioned in Table 1 of this standard.**

**Table 1 contains the minimum requirements per organization type and shall be complied with in conjunction with additional customer requirements.**

**For supplier types not captured in Table 1, refer to flowcharts Figures B1 (hardware providers) and B2 (service providers) AS13100 Appendix B to illustrate contractual flow down of the requirements.**

*Clause applies to all NWI PO's where NWI customer QA is a requirement.*