

**NRL & Associates, Inc.**  
**QUALITY ASSURANCE REQUIREMENTS**  
(See Purchase Order for Applicability)

**DEFINITIONS**

- (1) NRL shall mean NRL & Associates Inc.
- (2) **VENDOR** shall mean the person, firm, or corporation furnishing products or services to NRL & Associates Inc.

- B. Raw material used in purchased articles: The vendor shall supply records certifying chemical analysis and physical properties on all raw materials required for the manufacture of items procured on the purchase order.

**QA-1 CERTIFICATE OF COMPLIANCE**

The vendor shall furnish with each shipment a Certificate of Compliance. As a minimum the Certificate of Conformance must contain, as applicable, the Purchase order number, part/drawing or specification number, revision level, and quantity shipped, and a statement like the following:

This is to certify that all items ordered and contained in each shipment meet all drawings, specifications, and other applicable documents as cited in the NRL purchase order.

The certificate must be signed by an authorized representative of the vendor.

**QA-2 TEST REPORT/CERTIFICATE OF ANALYSIS**

With each shipment, the vendor shall furnish NRL a certification of actual physical and/or chemical analysis for each lot, batch, or heat. Test reports and/or Certificate of Analysis shall include as applicable:

- (1) NRL & Associates Inc. purchase order number.
- (2) Drawings and specification number.
- (3) Serial/lot numbers.
- (4) Actual test results reflecting acceptability and/or chemical analysis.
- (5) Name and address of the company that performed the test or analysis.
- (6) Date, signature and title of certifying company official.

**QA-3 INSPECTION AND/OR TEST REPORTS**

With each shipment, the vendor shall provide NRL with certified reports of inspections and/or tests to verify the quality of the product(s) delivered. At a minimum, these reports shall include the following data, as applicable to the product:

- A. Dimensional and physical inspection reports referencing the NRL purchase order number, vendor's name and address, part number, part name, serial number, and date. Where variable data is involved, the actual numerical results obtained shall be indicated in addition to criteria for acceptance/rejection.

**QA-4 FIRST PIECE INSPECTION**

When first-piece inspection is required, the vendor will submit a First Article Report along with the first article. This report will include drawing notes, and dimensional features with inspected item(s) tagged. Any third-party reports used to verify the part shall be included in the report. The vendor must have NRL approval of the first manufactured piece **before** production begins. Items produced prior to NRL approval of the first piece shall be at the vendor's risk. Failure to provide this inspection report will result in receiving inspection processing delay and/or possible rejection of the lot.

**QA-4.1 AS9102 FIRST ARTICLE INSPECTION (FAI)**

The vendor shall provide a First Article Inspection (FAI) report in accordance with AS9102, documenting drawing notes, dimensional data (variables) and attributes for each deliverable part number. This is required each time the vendor produces a part not previously manufactured by them. A copy of the AS9102 FAI form can be found at: <http://www.sae.org/aaqg/publications/as9102a-faq.htm>.

**QA-4.2 IDENTIFIED FIRST PIECE**

The shipment of parts you received for special processing contains an identified, inspected first piece. While in your facility the part must be managed and processed in such a manner that it remains identifiable as the original first piece you received. After processing, the original first piece part must be identified when returned to NRL.

**QA-5 INSPECTION DATA**

With each shipment the vendor shall furnish NRL with the inspection and/or test data as agreed to in prior negotiations between the vendor and NRL

**QA-6 DRAWING AND CATALOG DATES**

- A. The vendor warrants that no changes, deviations, repairs, and/or modifications will be made to the articles hereon, from the date of the drawings or catalogs to the date of the final shipment against the NRL purchase order.

- B. If purchased articles have been changed in any way since the dates of the drawings and/or catalogs as shown on the hereon, note the changes and include the latest drawings and/or catalogs with your quote.

#### **QA-7 CASTINGS/FORGINGS**

With the shipment, the vendor shall furnish NRL with a certificate of compliance stating that the castings/forgings, as applicable, have had the following inspection and tests:

- (1) Dimensional inspection
- (2) Hardness check
- (3) Penetrant inspection
- (4) Magnetic particle inspection
- (5) Ultrasonic inspection
- (6) Pressure test.

The vendor shall include the following with each shipment:

- A. Actual chemical analysis or, a statement that the chemistry meets specification, and the test reports are on file subject to examination by NRL.
- B. Radiographic film for each item shipped if radiographic inspection is required.
- C. Actual mechanical properties from a separate test coupon of the lot.

#### **QA-8 NRL & ASSOCIATES INC. SOURCE INSPECTION**

- A. NRL will inspect the materials submitted in the performance of the NRL purchase order at the vendor's facility. The vendor will notify NRL when the items are ready for inspection; or, if practical, ten (10) days in advance.
- B. NRL reserves the right to inspect all materials under this purchase order at the vendor's facility. When the material is ready for inspection, the vendor shall notify NRL to determine whether NRL desires to exercise this option.
- C. In-process inspection: Articles listed on the NRL purchase order are subject to in-process inspection by an NRL quality assurance representative. The vendor shall notify NRL in time to permit NRL's quality assurance representative to inspect the material during fabrication or assembly.

#### **QA-9 GOVERNMENT SOURCE INSPECTION**

- A. The articles on this purchase order are subject to government source inspection at source. A copy of this purchase order must be furnished immediately to the government inspector who normally services your plant. When material is ready for inspection,

or, if practicable, ten (10) days in advance thereof, notify the government inspector, or office. If the inspector or office cannot be located, notify NRL immediately.

- B. The government and NRL reserve the right to appraise your facilities and operations to determine compliance with applicable product assurance requirements.

#### **QA-10 LIMITED-LIFE ITEMS**

Materials or articles having a definite characteristic of quality degradation with age shall be marked in a manner to indicate the date at which the shelf life was initiated and when the shelf life will expire. Seventy-five percent (75%) of shelf life for each batch/lot should be remaining upon receipt at NRL.

#### **QA-11 REPORT OF DISCREPANCY**

All departures from drawings, specifications, or other purchase order requirements must be reported to NRL, for approval prior to shipment.

#### **QA-12 RESUBMISSION OF NONCONFORMING ITEMS**

All items rejected by NRL and subsequently resubmitted by the vendor shall bear adequate indication of such resubmission. This must be done either on the items or on shipping documents. Reference shall be made to NRL's nonconformance report and evidence given that the causes for nonconformance have been corrected.

#### **QA-13 QUALITY/INSPECTION SYSTEM**

The vendor's quality system shall conform to the requirements of:

- A. ANSI/ISO/ISO 9001
- B. ISO-13485
- C. AS/EN9100
- D. Other: The vendor shall maintain an inspection system acceptable to NRL covering supplies and services under this order.

#### **QA-14 QUALITY ASSURANCE PLAN**

The vendor shall provide a quality control plan for review by NRL. The plan shall include provision for inspection data sheets, test reports, and instructions pertinent to the performance of the inspections and/or tests. Production shall not commence until NRL has reviewed and approved the plan.

#### **QA-15 SPECIAL PROCESSES**

Each process, including cleaning, finishing, X-ray, welding, magnetic particle/penetrant inspection, heat treating, plating, etc. performed by vendors must be approved PRIOR to performing these processes on deliverable material. Sub-tier vendors shall be identified to NRL **PRIOR** to performing those processes on deliverable items. When second tier vendors are used, the process provider shall provide a Compliance Certification to the applicable process specification.

**QA-16 Superseded By QA-20**

**QA-17 NRL & ASSOCIATES INC. RECEIVING INSPECTION REQUIRED**

Upon receipt of items purchased on this purchase order, a representative sample of those items must be forwarded to the NRL quality department for verification.

**QA-18 RESTRICTION OF HAZARDOUS SUBSTANCES (RoHS) COMPLIANCE**

Vendors will certify that items, or any component incorporated into that item, delivered under NRL's purchase order do not contain any of the ten controlled substances: lead, mercury, cadmium, hexavalent chromium, poly-brominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP), in homogenous substances do not exceed threshold limits in RoHS 2011/65/EU as amended by directive 2015/863/EU (RoHS).

**If compliant vendors need to state on their certifications supplied to NRL "RoHS 2011/65/EU as amended by directive 2015/863/EU compliant".**

Any of the ten substances that exceed the threshold limits of RoHS must be reported to NRL.

As an alternative to individual certifications vendors can issue a blanket statement certifying that all components or materials, they supply are compliant to RoHS 2011/65/EU as amended by 2015/863/EU. Service providers (plating, marking, painting, welding, etc.) can issue a blanket statement certifying their processes produce results that are compliant to RoHS 2011/65/EU as amended by 2015/863/EU.

In either case the vendors must have evidence on file to support the certification. NRL may ask for evidence in support of RoHS compliance at any time. The vendor will supply that evidence to NRL free of charge.

New blanket certifications will be required each time new substances are added to RoHS.

**QA-19 LATEX FREE**

Vendors will certify that items, or any component incorporated into that item, delivered under this purchase order do not contain any Latex. **Vendors must state "Latex Free" on their certifications supplied to NRL.**

**QA-20 RESTRICTIONS ON ACQUISITION OF SPECIALTY METALS**

This purchase order incorporates one or more DFAR clauses for acquisition of specialty metals. Specialty metals are defined as:

Steel—

(A) With a maximum alloy content exceeding one or more of the following limits: manganese, 1.65 percent; silicon, 0.60 percent; or copper, 0.60 percent; or

(B) Containing more than 0.25 percent of any of the following elements: aluminum, chromium, cobalt, columbium, molybdenum, nickel, titanium, tungsten, or vanadium.

(ii) Metal alloys consisting of nickel, iron-nickel, and cobalt

base alloys containing a total of other alloying metals (except iron) more than 10 percent.

(iii) Titanium and titanium alloys; or

(iv) Zirconium and zirconium base alloys.

included in any articles (material or components)

Items delivered under this purchase order must comply with the specific specialty metals DFAR clause flowed down on this purchase order.

**QA-21 ITEM AUTHENTICITY**

All items delivered under this purchase order shall be genuine, new, and unused, are not defective, suspect, fraudulent or counterfeit. All items must be traceable to the original manufacturer. The vendor shall provide such authenticity records to NRL upon request. The vendor shall establish and maintain an authenticity process which ensures the requirements of this clause are met. The substance of this clause shall be incorporated into any subcontract or purchase order entered into by the vendor for the performance of any part of the work under this purchase order.

The vendor is responsible for notifying NRL of any fraudulent or counterfeit that have been identified and were supplied to NRL. This notification has no time limit and shall be flowed down to your sub-tier suppliers involved in the processing of parts NRL purchases.

#### **QA-22 VENDOR CORRECTIVE ACTION**

The vendor shall respond in a timely manner to each NRL issued Corrective Action Request (CAR). The vendor shall complete the NRL issued CAR providing a documented corrective action for returned discrepant items and stating whether items were reworked or replaced, and if reworked, what rework was performed.

#### **QA-23 NORTHROP GRUMMAN APPROVED SPECIAL PROCESSOR LIST (ASPL) AND PROVIDER CERTIFICATION**

Vendors and sub-tier vendors shall certify that special processes specified by the NRL supplied documentation and performed on delivered items, are performed by ASPL. The NGC ASPL can be accessed thru the NGC Oasis web site at <https://oasis-aspl.myngc.com/>. The process provider shall provide a Compliance Certification listing the applicable process specification and if other than the vendor listed on the NRL purchase order, who performed the process.

#### **QA-24 CONFLICT MINERALS RESTRICTION**

This PO invokes compliance with the Dodd-Frank Wall Street Reform and Consumer Protection Act also known as (aka) conflict minerals act. Items supplied under this PO must not contain wolframite (as tungsten), columbite-tantalite aka coltan (as tantalum), cassiterite (as Tin), or Gold from ore that was mined in conditions of armed conflict in the Democratic Republic of Congo and the surrounding nine countries. NRL reserves the right to verify any information received from our suppliers.

#### **QA-25 FOD SENSITIVE ITEMS**

Items listed on this PO are FOD (Foreign Object Damage/Debris) sensitive. The vendor must take all precautions necessary to ensure items delivered under this PO have not been damaged by FOD and do not contain any FOD. Items delivered that have damage or debris will be immediately returned.

#### **QA-26 ITAR**

The item supplied to you for processing is governed by ITAR regulations 22 CFR parts 120-130. It requires you to be registered with the Directorate of Defense Trade Controls (DDTC) to be compliant.

#### **QA-27 VENDOR COMPONENT/MATERIAL CERTIFICATIONS.**

In addition to any certifications supplied by the vendor for the product purchased by NRL,

components and/or materials incorporated by the vendor into the end item must be certified by the vendor supplying the item. Those certifications must be identifiable to the item supplied and must show that the item meets the requirements of the documentation supplied by NRL. These certifications are to be maintained by the vendor for the life of the product and made available to NRL when requested.

#### **QA-28 BLEMISH FREE SURFACE**

Items listed on this PO must be supplied free from surface defects such as: scratches, gouges, dings, dents, rolled in scale, scabs, seams, slag inclusions, contraction cavities, pores, gas porosity, cold shuts, blisters, discoloration, cracks, burns, corrosion, stains, or any other surface defect occurring outside the manufacturing process of the item such as during transportation or storage.

#### **QA-29 REACH**

Vendors and sub-tier vendors shall certify that the items/services, or any component incorporated into that item delivered under NRL's purchase orders are compliant to the EU regulation No. 1907/2006, Registration, Evaluation and Authorization of Chemicals (REACH).

Vendors and sub-tier vendors must notify NRL of any substances above threshold limits on the Substance of Very High Concern (SVHC) list on a weight-by-weight basis (W/W) that are in any of the products/services they supply to NRL. Safe use information must be supplied on those substances. The SVHC List is updated on a regular basis, at least annually. If a substance is added to the Candidate List that is contained in any products supplied to NRL, the vendor must notify NRL.

The vendor is responsible for ensuring that products and services conform to and are compliant with the restrictions in Annex XVII of the REACH regulation. If the product is not compliant with the restrictions listed, the vendor must notify NRL.

**Vendors need to state compliance to REACH on their certifications indicating the item complied to the version of REACH in effect at the time the cert was created on their certifications supplied to NRL.**

As an alternative to individual certifications vendors can issue a blanket certification stating that all components/materials, supplied by their organization comply to EU regulation No. 1907/2006 and the restrictions in Annex XVII.

Service providers (plating, marking, painting, welding, etc.) may issue a blanket certification stating their organizations processes produce results on parts that are compliant to EU regulation

No. 1907/2006 and the restrictions listed in Annex XVII.

In either case the vendors must have evidence on file to support the certification. NRL may ask for that evidence at any time. The vendor will supply the evidence to NRL free of charge.

New blanket certifications will be required each time new substances are added to REACH.

More information on REACH can be found at <https://www.echa.europa.eu/>

#### **QA-30 PROPOSITION 65**

Vendors and sub-tier vendors shall certify that the items/services they have supplied to NRL are compliant to California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

Any products supplied to NRL that contain substances listed on the CHEMICALS KNOWN TO THE STATE TO CAUSE CANCER OR REPRODUCTIVE TOXICITY list, published by the Office of Environmental Health Hazard Assessment (OEHHA) must be reported to NRL.

The Prop 65 list is updated on a regular basis. If a substance is added to the Proposition 65 List and that substance is in any products supplied to NRL, the vendor must notify NRL.

**Vendors need to state compliance to PROP 65 on their certifications, indicating the item complied to the version of prop 65 in effect at the time the cert was created on their certifications supplied to NRL.**

More information on Proposition 65 can be found at <https://oehha.ca.gov/about/home>.

As an alternative to individual certifications vendors can issue a blanket certification stating that all components/materials supplied by their organization comply to the current version of Proposition 65.

Service providers (plating, marking, painting, welding, etc.) can issue a blanket certification stating their organization's processes produce results on parts that are compliant to the current version of Proposition 65.

In either case the vendors must have evidence on file to support the certification. NRL may ask for that evidence at any time and the vendor will supply it to NRL free of charge.

New blanket certifications will be required each time new substances are added to Proposition 65.

#### **QA-31 SUPPLIER RECORD RETENTION**

The supplier must maintain all records relating to inspection, testing, acceptance, rejection, and certification for an indefinite period or at least five

(5) years after the product's end of life. These records shall be available for review by representatives of NRL & Associates and/or its customers at any reasonable time during the supplier's working hours throughout the retention period. If requested, a copy of specific records will be sent to NRL & Associates Inc.

#### **QA-32 SUBSTANCES RESTRICTED FROM USE IN PARTS SUPPLIED TO NRL.**

Vendors and sub-tier vendors shall certify that the items/services they have supplied to NRL do not contain the following substances in the part supplied.

- Arsenic/Arsenic Compounds
- Asbestos
- Benzene
- Ozone depleting Substances (CFCs, HCFCs, HBFCs, carbon tetrachloride, etc., Class I & II HCFCs)
- Polychlorinated Biphenyls (PCBs)

#### **QA-33 QA CLAUSE FLOW DOWN TO SUB-TIER SUPPLIERS**

The prime vendor listed on the NRL purchase order will flow down the applicable requirements listed in Clauses 1 through 32 to all sub-tier suppliers performing activities associated with this PO.

#### **QA-34 EUROPEAN UNION & UNITED KINGDOM SANCTIONS IMPOSED ON THE USE OF RUSSIAN IRON OR STEEL.**

Effective 30 September 2023, two regulations EU No 833/2014 & UK - The Russia (Sanctions) (EU Exit) Regulations 2019 went into effect. These regulations limit Russian Iron and Steel Importation into the EU and UK. NRL does not export to the EU, or UK but some of our customers do. Products exported to the EU or UK may be held in customs, due to lack of documented compliance. To import products into this region, documentation in the form of Mill Test Certificate(s) or a declaration completed / signed is required to support customs documentation. Please provide MTCs or a declaration identifying the parts purchased do not contain iron or steel that originated in Russia.

#### **QA-35 PROHIBITION OF THE IMPORTATION INTO THE U.S. OF RUSSIAN FEDERATION ORIGIN ALUMINUM, COPPER, AND NICKEL**

Parts or materials supplied by this purchase order must comply with the US government agency OFAC enacted prohibitions pursuant to Executive Order 14068, which prohibits the importation into the U.S. of Russian Federation origin aluminum, copper, and nickel, as of April 13, 2024. As of the same day, the exportation, re-exportation, sale, or

supply, directly or indirectly, of services connected to these metals are also prohibited. Aluminum, copper, and nickel produced prior to April 13, 2024, are excluded from this import ban.