



F-18 PROGRAM MANDATORY FLOW DOWNS

Supplier Quality Assurance Requirements (SQAR), current revision

For current revision:

<https://www.northropgrumman.com/suppliers/Pages/ASQualityDocs.aspx>

1.0 QUALITY RECORD RETENTION

The Supplier shall maintain Quality records in accordance with the applicable Quality System standard (i.e., ISO 9001, AS/EN9100). The records shall be retained for a period of not less than seven (7) years from completion of the purchase order. The Supplier must impose this requirement on their sub-tiers.

Records shall include, but not be limited to:

- Evidence of inspection to assure adherence to applicable drawings or specifications and revisions.
- First Article Inspection Report
- Test Reports
- Periodic inspection and control of inspection media
- Records to indicate control of Special Tooling and Special Test Equipment
- Test data records of all qualification and acceptance test performed
- Certification of personnel as required by specification and/or contract
- Raw Material and Process certifications
- Material Review Reports

Raw Material and Process certifications, referencing any/all applicable specifications and revisions, are required from all suppliers. Copies of all certifications from the suppliers and sub-tier suppliers must be forwarded with each shipment as part of the Supplier Certificate of Conformance.

2.0 QUALITY MANAGEMENT SYSTEM

This Purchase Order is placed by DNE Technologies, ESCO Maritime Solutions in response to our customer, Northrop Grumman Integrated Systems (NGC), F/A-18E/F Program. All suppliers shall maintain a quality system equivalent to either ISO9001 (Current Revision), AS/EN9100 (Current Revision) or AS9003 standard (Current Revision).

A First Article Inspection Report in accordance with AS9102 is required. This does not apply to Commercial Off the Shelf/Catalog items. An AS9102 First Article Inspection Report is required with your first delivery of product to DNE Technologies, ESCO



F-18 PROGRAM MANDATORY FLOW DOWNS

Maritime Solutions. A new AS9102 First Article Inspection Report will be required only if one or more of the following apply:

- a. A change in design affecting fit, form, or function of the part.
- b. A change in manufacturing source(s), process(es), inspection method(s), location of manufacture, tooling or materials, that can potentially affect fit, form or function.
- c. A change in numerical control program or translation to another media that can potentially affect fit, form or function.
- d. A natural or man-made event, which may adversely affect the manufacturing process.
- e. A lapse in production for two years, or as specified by DNE Technologies, ESCO Maritime Solutions.

3.0 RIGHT OF ACCESS

Supplier agrees that Northrop Grumman Corporation or their customer will have reasonable access to all areas where work under this Purchase Order is being performed for the purpose of reviewing Supplier's manufacturing and processing plans and records and conducting preliminary inspection and tests of final product as well as work in process.

4.0 PREFERENCE FOR DOMESTIC SPECIALTY METALS

By acceptance of this Purchase Order, Supplier certifies that it meets the requirements of the DFAR 252.225-7014 (Alt. 1) shown below. This clause applies to standard hardware as well as products built to DNE Technologies, ESCO Maritime Solutions drawings.

DFARS 252.225-7014 Preference for domestic specialty metals.

PREFERENCE FOR DOMESTIC SPECIALTY METALS (JUNE 2005)

(a) Definitions - As used in this clause:

- (1) Qualifying country means any country listed in subsection 225.872-1 of the Defense Federal Acquisition Regulation Supplement.
- (2) Specialty metals means —
 - (i) Steel —



F-18 PROGRAM MANDATORY FLOW DOWNS

- 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) in excess of 10 percent;

(iii) Titanium and titanium alloys; or

(iv) Zirconium and zirconium base alloys.

a) Any specialty metals incorporated in articles delivered under this contract shall be melted in the United States or its outlying areas.

b) This clause does not apply to specialty metals —

(b) Melted in a qualifying country or incorporated in an article manufactured in a qualifying country; or

(c) Purchased by a subcontractor at any tier.

(End of clause)

Alternate I (APR 2003)

As prescribed in 225.7002-3(b) (2), substitute the following paragraph (c) for paragraph (c) of the basic clause, and add the following paragraph (d) to the basic clause:

(c) This clause does not apply to specialty metals melted in a qualifying country or incorporated in an article manufactured in a qualifying country.

(d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts for items containing specialty metals.

Note: Current qualifying countries include: Australia, Belgium, Canada, Denmark, Egypt, Federal Republic of Germany, France, Greece, Israel, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom of Great Britain and Northern Ireland.

EXCLUSION:



F-18 PROGRAM MANDATORY FLOW DOWNS

The DFARS Specialty Metals Domestic Non-Availability Determination (DNAD) covering specific types of hardware and fasteners has been released by The Under Secretary of Defense in April 2007.

As a result, DNE Technologies, ESCO Maritime Solutions may procure items containing fasteners notwithstanding the country where the specialty metals contained in such items were melted or produced.

This DNAD is applicable to current and future procurements of fasteners described in the following hardware (FSC) Federal Stock Classes:

- 5305 Screws
- 5306 Bolts
- 5307 Studs
- 5310 Nuts and Washers -- Includes locknuts, eye nuts, plain nuts, castellated nuts, concave or convex washers, keyed washers, lock washers, shouldered washers, split washers, Excludes bearing thrust washers, shims, ring spacers, plate spacers, lock rings
- 5320 Rivets
- 5325 Fastening Devices – includes eyelets, grommets, aircraft cowlings fasteners, textile fasteners, retaining rings, threaded inserts and North American Industry Classification System (NAICS) 2002 code 332722 but excludes cotter pins, dowel pins, hose clamps, spring pins and turnbuckles.

Until further notice, procured product listed hereinabove are exempt from the DFAR 252.225-7014 specialty metals clause.

5.0 AIR EMISSIONS STANDARDS

Supplier shall comply with all applicable Federal, State, or local air pollution or emission statutes, rules, regulations, permits or other regulatory controls. Supplier and any of your subcontractors located in California shall also comply with the state and local statutes, rules, regulations, permits and Government orders effective on the date of this Purchase Order, or as adopted or amended during its performance.

Should a violation, alleged violation, or potential violation of applicable statutes, rules, regulations, permits or Government orders exist before or occur during the term of this Purchase Order, Supplier and your subcontractors shall immediately: (1) satisfy DNE Technologies, ESCO Maritime Solutions schedule, quality requirements and all terms and conditions of the Purchase Order within full compliance of the law, or advise DNE Technologies, ESCO Maritime Solutions of Supplier's inability to perform; (2) establish and maintain compliance with all applicable statutes, rules, regulations, permits and orders at no cost or charge to DNE Technologies, ESCO Maritime Solutions; and (3) notify DNE Technologies, ESCO Maritime Solutions of any notice of violation or warning notice of violation received or that the Supplier anticipates



F-18 PROGRAM MANDATORY FLOW DOWNS

receiving from Federal, state or local air pollution or emission authorities that affect or may affect the fulfillment of this Purchase Order. Supplier's failure to comply with this clause may result in termination of this Purchase Order.

6.0 SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986

As a result of passage of California's "Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)," suppliers are hereby required to identify any chemicals on the California list of chemicals known to cause cancer or reproductive toxicity that are contained in any products.

A current list of regulated chemicals is available at:

http://www.oehha.ca.gov/prop65/prop65_list/Newlist.html

7.0 COUNTERFEIT PARTS

All fasteners and/or electrical, electronic and electro-mechanical parts delivered and/or used in the manufacture of deliverable products shall be from the Original Component Manufacturer (OCM)/Original Equipment Manufacturer (OEM) or their franchised dealer or an authorized distributor chain. Parts shall not be used or reclaimed and misrepresented as new. Parts shall not be acquired from independent distributors or brokers unless specifically authorized in writing by DNE Technologies, ESCO Maritime Solutions and/or our end Customer NGC. The supplier shall verify the procurement source and associated certifying paperwork. Appropriate inspection and/or test methods shall be used to detect potential counterfeit parts and materials. The Supplier shall meet the requirements of DFARS 252.246-7007, Contractor Counterfeit Electronic Part Detection and Avoidance System and DFARS 252.246-7008, Sources of Electronic Parts. Refer to DNE Technologies, ESCO Maritime Solutions Counterfeit Hardware Avoidance Procedure ([P-814](#), Current Rev.).

8.0 PROHIBITION ON ACQUISITION OF US MUNITIONS LIST ITEMS FROM COMMUNIST CHINESE MILITARY COMPANIES

PROHIBITION ON ACQUISITION OF UNITED STATES MUNITIONS LIST ITEMS FROM COMMUNIST CHINESE MILITARY COMPANIES (SEP 2006)

(a) Definitions. As used in this clause- "Communist Chinese military company" means any entity that is -

- (1) A part of the commercial or defense industrial base of the People's Republic of China; or;
- (2) Owned or controlled by, or affiliated with, an element of the Government or armed forces of the People's Republic of China.



F-18 PROGRAM MANDATORY FLOW DOWNS

United States Munitions List” means the munitions list of the International Traffic in Arms Regulation in 22 CFR Part 121.

(b) Any supplies or services covered by the United States Munitions List that are delivered under this contract may not be acquired, directly or indirectly, from a Communist Chinese military company.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in all subcontracts for items covered by the United States Munitions List.

9.0 FLOW DOWN TO SUB TIER SUPPLIERS

Requirements listed in paragraphs 1 through 8 listed above must be flowed down to all sub-tier suppliers performing activities associated with this PO.

Included in these requirements all sub-tier suppliers must ensure that persons are aware of:

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