

I. General Requirements

Packaging

Packaging for shipment shall be best commercial practice and will conform to the applicable transportation regulations. Additional requirements may be required by the specific material specifications with which you are complying. All finished machined parts shall be individually packaged in a manner which will protect all surfaces during shipment.

Procedure Approval

You are required to notify your applicable buyer and obtain approval of any change in your process, procedures (all NDT, welding as well as specific/unique process, etc.) Procedures must be approved prior to performing work. Hunt Valve notice and approval is required in all instances prior to shipment. **Failure to notify the buyer of changes/deviations may be a violation of Federal Law.**

All NDT, alloy identity, welding and brazing used on Hunt Valve orders shall be to procedures submitted to and approved by Hunt Valve and/or its customer(s). The vendor shall not use these procedures on Hunt Valve contract items until the approval is received.

Deviations/Exceptions

You are required to notify your applicable buyer and obtain approval of any change in your design or any deviation from the purchase order requirements including standard clauses, drawings and invoked specifications. Hunt Valve notice and approval is required in all instances prior to shipment. Failure to notify the buyer of changes/deviations/exceptions may be a violation of Federal Law.

The acceptance of nonconforming materials by the purchaser for a specific order or prior orders does not relieve the suppliers of their obligation to furnish all remaining items or material on the order, in strict conformance to all requirements. Any acceptance of a nonconformance will not serve as a waiver of requirements or establish precedence for performance, regarding subsequent deliveries under current or future orders.

Note: The purchase order shall take precedence over invoked drawings and specification requirements. Deviations or requests for clarification may be submitted on Form Q4.4.4A. In any case approval must be granted in writing. Form Q4.4.4A may be obtained through Hunt Valve Company or accessed through our company website.

Fraud and Falsification

This purchase order is a lower-tier subcontract under a Government prime contract or subcontract. As such, activities there under are within the jurisdiction of the United States Government. Any knowing and willful act to falsify, conceal, or alter a material fact, or any false, fraudulent or fictitious statement or representation in connection with the performance of work under this purchase order may be punishable in accordance with applicable Federal statutes.

Federal Law (18 USC 1001) provides, in part as follows:

“Except as otherwise provided in this section, whoever, in any matter within the jurisdiction of the executive, legislative or judicial branch of the Government of the United States, knowingly and willfully-

- (1) Falsifies, conceals or covers up by any trick, scheme, or device, a material fact;
- (2) Makes any materially false, fictitious or fraudulent statements or representations; or
- (3) Makes or uses any false writing or document knowing the same to contain any materially false, fictitious or fraudulent statement or entry, shall be fined under this title or imprisoned not more than 5 years, or if the offense involves international or domestic terrorism (as defined in section 2331), imprisoned not more than 8 years or both...”

All employees or other persons engaged in or who will be engaged in the performance of work under this Purchase Order, shall be, if they have not been previously, informed in writing of the above language and that there is a risk of Federal criminal penalties associated with any knowingly and willful falsification, concealment, or misrepresentation in connection with work performed under Government subcontractors such as this Purchase Order.

For more information regarding Malpractice Prevention follow the website link below:

www.gdeb.com/suppliers

Link to Electric Boat Supplier Quality Awareness Video

Link to Electric Boat Specification 2678 (Appendix B and D)

Certifications

Some form of certification (the level of which shall be specified by standard clauses) is required for all shipments. These certifications are essential to acceptance of the material. All certifications will require the signature, typed name and the title of the person responsible for the information provided on the certification.

Correcting Certifications-Reference Electric Boat Specification 2678

When making corrections to certifications the following method shall be used:

- a. Draw a single line through the incorrect entry. Erasure or obliterations, including “whiteout”, of information is prohibited. Enter the corrected information in a legible fashion. Initial and date each correction. If person making correction is different from original signer, initials or signature along with typed or printed name and title must be provided.
- b. When a certification is revised to make corrections or add information, in portion or completely, the certification shall be identified as a corrected copy and all changes shall be identified using an asterisk * with an explanation of the correction/addition stated on the certification. The original date of issuance must remain along with date of correction. If person making correction is different from original signer, initials or signature along with typed or printed name and title must be provided.
- c. When a person, other than the one who performs the inspection or test activity, signs a quality document, they must indicate for whom they are signing. Example: “J.W. Brown (alternate signature) for D.W. Smith” (printed).
- d. Certifications and permanent test and inspection records shall be complete signed and dated. Data shall not be annotated by ditto marks or left blank. When appropriate the use of N/A or none should be used.

NOTE: CORRECTIONS/ADDITIONS CANNOT BE MADE TO ANOTHER ORGANIZATION’S CERTIFICATION.

Electronic Signatures on Certifications (ref. EB 2678)

Definitions:

- Electronic Signature - The electronic signature is equivalent to person’s handwritten signature. It indicates approval of a certification of information or action(s) in the same manner as pen-and-ink signature.
- Electronic Identification - The electronic identification is an electronic means of identifying a signer of an electronic record, document transaction, or instrument. It is unique and attributable to only one person. Examples of various electronic identifications include but are not limited to: an identifying keystroke, a password, a personal identification number (PIN), or a token or magnetic key.

Electronic Signature Process Controls:

The controls for the electronic signature process should provide:

- The signer must take a distinct action to “sign” electronically
- A means to delegate signature authority which allows the delegated individual to utilize their own electronic identification (i.e. integrity of each person’s electronic signature must be preserved)
- A means to identify the electronic signer by name on the electronic paper version of the document and be maintained for the retention life of the electronic record.
- Preservation of unauthorized access to electronic identifications.
- An established password policy to change electronic identification and not share electronic identification.
- Reviews to ensure proper use of electronic signatures.
- A means to identify an electronic signature on a record as an electronic signature.
- Electronic signature applications shall not allow unauthorized users to change electronically signed documents, or records. All changes to electronically signed documents, or records made by authorized users shall be revision controlled, identify the person making the change, and shall clearly reflect that the document, or record has been revised.

DPAS - Defense Priorities and Allocation System (for contracts in support of a U.S. Government prime contract or subcontract)

This order may have a DoD Priority Rating and be noted as such on the purchase order. If this order is a rated order, certified for national defense use, you are required to follow the provisions of the Defense Priorities and Allocation System (15 CFR Part 700). This means any order for product, service or material will require preferential treatment. The DPAS provides that DoD contracts are assigned priority ratings to assure that these contracts are afforded production priorities for delivery ahead of unrated orders including commercial orders.

The vendor is obligated to accept the rated order to schedule production operations to satisfy delivery requirements of each rated order and to extend the priority rating to sub-vendors to assure that the item is delivered in the timeframe requested.

Security Awareness and Export Control of Technical Data (for contracts in support of a U.S. Government prime contract or subcontract)

Documentation associated with our product (including but not limited to drawings, sketches, specifications etc.) discussions, telecons or any other transfer of information whether verbal or written are considered to be technical data. This order is subject to ITAR (International Traffic in Arms Regulations). ITAR is the control of Defense Related Articles which restricts the release of technical data to only US Citizens in or out of USA and Technical data as outlined in Title 22 Code of Federal Regulations Subchapter M. See part 120 ET AL.

For more information regarding ITAR follow the website link below:

www.pmdtcc.state.gov – U.S. Department of State – Directorate of Defense Trade Controls (DDTC)

For more information regarding Security Awareness follow the website link below:

www.cdse.edu – Centers for Development of Security Excellence – U.S. Department of Defense – Defense Security.

- Click on “Resources” Icon
- Link to
 - Security Shorts
 - Security Training Videos
 - Security Posters
 - Case Studies
 - Tool Kits
 - Additional tools for Cyber Security, Insider Threat, Protecting your Identity.

Material Storage

Level 1 materials of different types (alloys), grades or conditions shall be segregated through physical separation unless readily differentiated by attributes such as size, physical identification, or physical appearance. The method of segregation shall assure that similar appearing material of different alloys and/or material conditions are not mixed. Material requiring traceability shall be segregated from non-traceable material. Nonconforming material shall be identified and segregated from acceptable material.

Purchase Order Review

The Supplier’s quality representative shall review Level 1 material purchase orders to sub-tier suppliers prior to placement to ensure that the applicable purchaser’s requirements are included. The preparer of a purchase order shall not review his/her own work. The purchase documents which include Level 1 material shall contain readily recognizable Level 1 identification.

Receiving Inspection

The Supplier shall inspect Level 1 material at time of receipt from their sub-tier Suppliers, Processors or Inspection Organizations to assure conformance to purchase order requirements and shall document results.

II. Part Specific Information

Conflict Mineral Disclosure

On August 22, 2012 the US Securities and Exchange Commission (“SEC”) adopted final rules implementing Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. These rules impose disclosure and due diligence requirements on publicly-traded companies that manufacture products containing certain minerals designated as, “conflict minerals”: gold, columbite-tantalite (coltan), cassiterite, wolframite, and their derivatives tantalum, tin and tungsten, that have been mined or smelted in Democratic Republic of the Congo (the “DRC”), Republic of Congo, Angola, Burundi, Central African Republic, Rwanda, South Sudan, Tanzania, Uganda or Zambia.

It is the vendor’s responsibility to disclose to Hunt Valve (in written form) if your product contains any of the above mentioned minerals.

O-Rings & Other Synthetic Rubber Products

Certifications are required when O-rings, or other synthetic rubber products, are being supplied as a part of the purchase order.

- A certification which includes a cure date, specification, revision, class and grade.
- SHELF LIFE
 - All O-rings and molded seals must be purchased with a minimum of 1/2 its shelf life still active, or as specified in the purchase order upon receipt.
 - Shelf life of these items will be as defined in SAE ARP5316, MIL-HDBK-695, or MIL-STD-1523A.
- Packaging and labeling shall be in accordance with SAE ARP5316, or as agreed upon with the buyer.
- Products will be manufactured from a source that is listed on the Qualified Products List for material/specification for which they are supplying.

Weld Filler Metal (for contracts in support of a U.S. Government prime contract or subcontract)

All Mil- Spec weld filler material (rod, electrode, wire, powder, etc.) used on military orders must be from a vendor that is listed on the Qualified Products List for material/specification for which they are supplying. Submit a copy of the certification to Hunt Quality Assurance Department for review and approval prior to use.

Seamless Pipe & Tubing Only

Unless specifically authorized in the Purchase Order, only seamless pipe and tubing shall be used in the items or components supplied to Hunt Valve. The vendor’s material control must maintain segregation of seamed pipe and tubing from seamless pipe and tubing so that they cannot become mixed. **This requirement must be passed down to the vendor’s mill or sub-tier suppliers.**

Tube and pipe shall be marked per MIL-STD-792 and shall not be marked with die stamps or vibro etched.

Fasteners

Centers are not permitted in machined fasteners. Vendor must notify Hunt Valve Company prior to purchase if internal fastener threads are manufactured by any other method than cutting. Cold forming of internal threads is not allowed.

Markings

All markings are to be performed in accordance with MIL-STD-792, para 4.1, Type I-IX unless otherwise specified on the purchase order.

The use of Electric Arc Marking Pencil is strictly prohibited.

Reference Section III – Standard Clauses – Standard Clause A.4 for more information regarding markings.

Modification to Purchases of K-Monel, QQ-N-286

If any NiCuAl (K-Monel) Material is utilized for this order, it must be in accordance with one of the following modifications:

- A) QQ-N-286 Revision F, dated 29 November 1990, and have been produced only by Special Metals Corporation (formerly Inco Alloys International/Huntington Alloys Inc.) with a production (pour) date later than December 21, 1976.

Test reports are required showing actual results of all chemical analyses, mechanical property tests, and Mechanical Testing required by the specification for each heat and lot of material furnished.

First Article Testing per paragraph 3.1 of QQ-N-286 revision F is required for all heats produced after February 19, 2001. Special Metals Corporation was exempt from First Article Testing for all heats produced prior to February 19, 2001.

Additionally, The following Special Metals Corporation heat numbers are not permitted to be used.

M00J6KG	M00J7KG	M01J1KG	M02J8KG
M02J9KG	M03J8KG	M04J2KG	M04J6KG
M04J7KG	M06J5KG	M06J8KG	M11J2KG
M11J3KG	M11J4KG	M11J5KG	M15J6KG
M17J2KG	M17J3KG	M17J4KG	M18J7KG
M19J7KG	M21J2KG	M22J7KG	M22J8KG
M23J2KG	M24J5KG	M26J8KG	M26J9KG
M27J9KG	M28J4KG	M30J9KG	M31J9KG
M33J7KG	M34H4KG	M35H0KG	M35J0KG
M35J7KG	M35H8KG	M36H7KG	M36J2KG
M36J3KG	M37J4KG	M39J3KG	M41J1KG
M41J2KG	M41H3KG	M41J3KG	M41J7KG
M41J8KG	M44J4KG	M44J6KG	M45J2KG
M45J8KG	M45J9KG	M46J7KG	M52H9KG
M61J8KG	M61J9KG	M62J5KG	M64J4KG
M64J5KG	M64J6KG	M67H2KG	M67J4KG
M69J1KG	M70J6KG	M73J4KG	M76H6KG
M80H2KG	M80H3KG	M84H9KG	M85H0KG
M88H6KG	M88H7KG	M89H5KG	M89H6KG
M92H0KG	M95H7KG	M97H8KG	M99H3KG

- B) Revision G, with the following modifications:

Revise paragraph 4.2.2.2 of QQ-N-286G as follows:

4.2.2.2 Slow Strain Rate Tensile Tests. Three Specimens shall be prepared and tested per lot. Specimens shall be taken after the final heat treatment. When material is shipped in the annealed condition, specimens may be taken after the final anneal and shall be heat treated in accordance with 4.3.6.1.

4.2.2.2.1 Bar Rod and Forgings. Slow Strain Rate Tensile Test specimens shall be taken from one end of a bar, rod, or forging at the quarter diameter (half radius) and in the longitudinal direction. Bars, rods, or forgings too small to have a Slow Strain Rate Test specimen taken from the quarter diameter that are taken from a lot (See 4.2.1.3) that does not have any larger sizes shall have the specimens taken from the center and in the longitudinal direction. Bars, Rods, or Forgings too small to have a Slow Strain Rate Test specimen taken from the center that are taken from a lot (See 4.2.1.3) that does not have any larger sizes shall be taken from the heat at the latest intermediate rolling or forging step that a Slow Strain Rate Test specimen can be taken from the mid-radius and heat treated using the same heat treatment procedures used on the production heat.

4.2.2.2.2 Wire. Slow Strain Rate Tensile Test specimens shall be taken from the heat at the latest intermediate rolling or forging step that a Slow Strain Rate Test specimen can be taken from the mid-radius and heat treated using the same heat treatment in accordance with 4.3.6.1.

4.2.2.2.3 Sheet and Plate. Slow Strain Rate Tensile Test specimens shall be taken from one end of a plate at the quarter thickness and in the longitudinal direction. Plate too small to have a Slow Strain Rate Test specimen taken from the quarter thickness may have the specimens taken from the center and in the longitudinal direction. Sheet and plate too small to have a Slow Strain Rate Test specimen taken from the center may have the specimens taken at the latest intermediate rolling step that a slow strain rate test specimen can be taken from the quarter thickness.

Revise paragraph 4.3.6.4.4 of QQ-N-286G as follows:

4.3.6.4.4 Testing Laboratory: Slow Strain Rate Tensile Testing shall be performed by a NAVSEA approved test laboratory. The following is a listing of the currently approved test laboratories, any one of which may be used at the vendor's discretion.

Huntington Alloys, A Special Metals Company
Attn: Frank Veltry
3200 Riverside Drive
Huntington, WV 25705

Metallurgical Consultants, Inc,
Attn: W.M. Buehler
4820 Caroline
P.O. Box 88046
Houston, TX 77288-0046

Naval Surface Warfare Center, Carderock Div.
Attn: Charles Roe
Code 614
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700

ATI-Allvac-Allegheny Technologies Inc.
Attn: Dr. W.D. Cao
2020 Ashcraft Ave.
Monroe, NC 28110

Mannesmann Rohrenwerke
Mannesmann Forschungsinstitut (MFI)
Attn: Dr. Weiss
Postfach 251160
47251 Duisburg
Germany

Westmoreland Mechanical Testing & Research, Inc.
Old Route 30, Westmoreland Drive
PO Box 388 Westmoreland Drive
Youngstown, PA 15696-0388

Revise paragraph 6.2 as follows:

- S) The laboratory conducting the Slow Strain Rate Testing shall be one approved by NAVESA (see 4.3.6.4.4)

Note: First Article Testing invoked elsewhere in this purchase order does not apply to material produced in accordance with revision G of QQ-N-286.

Special Requirements for NiCu, NiCuAl and CuNi Alloy Parts

The sulfur content of the gas and oil fuels used in firing furnaces for forging, extruding, or other hot working processes and for heat treatment of NiCu(N04400), NiCuAl (N05500), CuNi (C70600 and C71500), and other nickel or nickel base alloys shall be limited as follows:

1. GAS: 30 Grains per 100 cu ft. maximum
2. OIL : 0.5% by weight maximum

Requirements for CUNI Castings

The Foundry must be on the Huntington Ingalls/NNS approved CUNI foundry list, and the following will apply:

- 1 For each heat, the foundry shall test and have available a chemical test report for an "A" (beginning of furnace charge pour) and "B: (end of furnace charge pour) test specimen. The test reports and the specimen shall be identified as "A" and "B" in addition to the heat number traceability.
- 2 Mechanical test bars shall be poured no sooner than 50% through the furnace charge pour.
- 3 The foundry or supplier shall maintain the "A" and "B" test specimens, the mechanical test bars, and the test results as objective quality evidence, subject to audit and further analysis by buyer and/or HII/NNS.
 - a. Retention time shall be a minimum of seven (7) years following certification of heat.
 - b. Notify buyer or HII/NNS or both for disposition instructions prior to disposal of records and specimens.
- 4 Buyer's and HII/NNS products may be poured in the same heat; however, the heat shall be unique to Buyer and/or HII/NNS. No other customer's product shall be included in the heat.
- 5 Chemistry and Mechanical test report submittal shall be in accordance with the requirements contained elsewhere in this order. If chemical test reports are required to be submitted, the "B" chemistry test results shall be submitted, unless otherwise specified.

III. Outside Services Quality Requirements

Definition – As used in this section. “Outside Service” means any subcontractor performing but not limited to Machining, Heat Treatment, Non-Destructive Testing, Plating, etc.

No Welding Permitted

Should an error occur, return the component to HVC for evaluation. HVC will either replace the material at the sub-contractors expense or perform qualified weld repair.

Traceable Identification Markings

- Traceable markings are identified as:
 - Bar Stock and Forgings: 3 or 4 alpha digit as assigned by HVC i.e. ABC, ABC-1, XABV, XABV-1, W-9, W9-1
 - Castings: casting manufacturer's heat number i.e. 88978, J4035 and RT Number i.e. WP697, 68410 and RLS Number: RLS 10985 when applicable.
- Restore all traceable identification markings after machining.
- All material with different traceable identification markings are to be segregated during machining.
- Should traceability be lost notify Manufacturing Engineering immediately. DO NOT ATTEMPT TO ESTABLISH TRACEABILITY ON YOUR OWN.

Reidentification may be accomplished by

- Apply the traceability identification with a Dykem High Purity Black pen supplied by Hunt Valve.
- If material is too small to mark with the Dykem pen, tie a wire tag or bag and tag the material with the identity securely to the material.
- Vibro Etching the identity in a non-working area to maximum depth of .010 inches-only if approved by Hunt Valve prior to etching.

Non-Conformances

- All non-conformances and deviations must be issued to Hunt Valve in writing using Form Q4.4.4A or Vendors similar form prior to shipment unless otherwise authorized. See clause B.3. See Deviations/Exceptions under Section I General Requirements.

Segregation of Material

- Conforming and non-conforming material must be kept segregated. All non-conforming must be returned to Hunt Valve identified by a red tag or other means that make it identifiable as non-conforming.

Do Not Substitute any HVC Supplied Material

Should scrapping material supplied by HVC become necessary, notification to HVC is required. HVC will replace the material at the vendors expense.

Stockpiling of HVC Material is Prohibited

If HVC has issued more material than what is needed for a job, return all excess material.

Note: The excess material must bear all original identification.

Subcontracting of Supplied Material is not Permitted without prior HVC Approval

If outside processing is required any sub-tier operations must first be approved by HVC prior to placement of the material with a vendors subcontractor. When clause A.8 is invoked all contract requirements must be passed down to the sub-contractor.

Sufficiently Protect Machined Surfaces During Transport, Damaged Items due to Improper Packaging or Handling shall be Liable to the Vendor.**Inspection**

All machined components must have 100% inspection performed. The Inspection Reports shall be maintained at your facility and made available to HVC upon request. The Inspection Documents shall include acceptance criteria, part number, purchase order number, HVC work order number, quantity and trace code/heat code markings as applicable.

Failure to comply with these requirements will be cause for Hunt Valve to disqualify the vendor as an approved machining subcontractor.

Non-conformances identified during HVC Receipt Inspection will initiate back charges for all HVC machining and material costs. These back charges shall be directly charged to the offending vendor.

Hole Tolerance Chart

Unless otherwise specified, dimensional tolerances for all round holes shall be controlled by the Hole Tolerance Chart as it appears on the applicable drawing regardless of whether the hole was drilled, bored, EDM'd, or machined by some other means. This includes counter bores.

Threads

All threads shall be in accordance with FED-STD-H28.

Heat Treatment

Furnace charts shall identify the heat treater, the time of heat treatment, the heat treatment lot number, furnace identification, operation (e.g. temper, anneal, etc) date, quantity, heat numbers, and item description. In addition, the autographic recorded rate (i.e. inches/hour) shall be annotated. For Post Weld Heat Treat (PWHT); the certification must list the base material condition and temper, as applicable, as used by the base metal producer.

The following are the minimum requirements for a C of C: (Ref A.1 clause, Section IV Standard Clauses)

The HVC Purchase Order Number, part number, part number description, work order number, drawing number, drawing revision, brief statement of work being performed, mercury free statement, trace markings if required and quantity are to be listed on certifications.

Trace markings shall include but are not limited to Hunt Trace Code, RLS number, RT number and heat number.

IV STANDARD CLAUSES

The following Standard Clauses form a part of this Purchase Order, **WHEN SPECIFICALLY INVOKED**. Acceptance of this Purchase Order indicates that you will comply with the invoked Standard Clauses. All inspections or tests invoked by the Purchase Order, drawings, or invoked specification must be performed. Objective Quality Evidence (records) of the required inspection/test must be maintained.

Test records shall be retained for a period of seven years after completion of purchase order. HVC reserves the right to inquire or request additional information on past purchase orders.

MATERIAL CERTIFICATION

Clause A.1 A Certificate of Conformance (C of C) is required. The specification and revision, along with class/grade and condition of material are required on the Certificate of Conformance. The country of origin of the raw material (melt source) must be listed. When a Revision Date is not cited on the Purchase Order, the actual–Revision Date used for the required Specification **MUST** be supplied on the Certificate of Conformance. The HVC purchase order number, part number, part number description, work order number when applicable, and quantity must appear on Certificate of Conformance. The Certificate of Conformance must bear a signature, with a typed or printed name and title of an authorized representative of the vendor. No material substitutions shall be made without written authorization from HVC. Material substitutions not authorized by HVC shall be subject to rejection. Statements on certification documents must be positive and unqualified. Words such as "to the best of our knowledge" or "we believe the information contained herein is true" are not acceptable. All markings are to be performed in accordance with MIL-STD-792 para. 4.1, Type I-IX. Electric Arc Marking is strictly prohibited.

Clause A.2 This material requires complete chemical and mechanical Heat Lot traceability to the original mill.

- a. A true and exact copy of the original mill certification, along with the original melt certification, if applicable, is required. **This mill certification must bear the typed or printed name and title, along with the signature of an authorized representative of the original mill. All certifications must be in English.** Any transposition of test results from the original mill cert to yours, or any other letterhead, is ACCEPTABLE, but must be noted on your certification. Statements on certification documents must be positive and unqualified. Words such as "to the best of our knowledge" or "we believe the information contained herein is true" are not acceptable. Each certification must bear the specification number and the revision date. When a Revision Date is not cited on the Purchase Order, the actual Revision Date used for the required specification must be supplied. The original Mill Certification documents must include a statement "The reported results represent the actual attributes and indicate full compliance of the material furnished with all applicable specifications." This statement is applicable to all material produced and tested on and after January 1, 2007.

If the material furnished has been worked, i.e. forged, cast, cold formed, or heat-treated, resulting in changes to its mechanical properties, the mechanical properties shall be re-determined and the material shall be uniquely re-identified to provide traceability to the final heat treatment and mechanicals certified for that material in its final condition.

- b. Certification and certified test reports are essential to acceptance of the material and must be received prior to receipt of the hardware items to which they correspond, or the shipment will be rejected and the invoice will not be paid.

Clause A.3 All parts shipped shall be controlled by Heat Lot and/or unique trace code number and marked individually with that mark.

Clause A.4 **Material Marking**

Each shipment of material must be clearly identified to its Documentation Traceability as pertains to raw material heat number and a heat treat lot number (if applicable) or a unique trace code number. In all cases, the traceability marking utilized shall be unique in that given only the traceability marking, the Vendor shall be able to provide all Objective Quality Evidence associated with the processing of that item, including heat treat.

LEVEL 1 COMPONENTS

- Material Marking Techniques for Level 1 Components, Component Parts or Piping must be in accordance with one of the Permanent Marking methods per MIL-STD-792, para. 4.1, Type I-IX, unless otherwise specified.

RAW MATERIAL

- Material Marking Techniques for Barstock and other forms of Raw Material must be in accordance with the *applicable material specification*. The following methods are acceptable to HVC:
- Permanent Marking methods per MIL-STD-792, para. 4.1, Type I-IX, as applicable.
- Or, recognized Temporary Marking methods such as:
 - Bundle-and-Wrap of each line item with Shrink Wrapped Identification Tag.
 - Wire-Tag affixed to item/bundle
 - Paint Stick identification on each piece/bundle
- Or, recognized Other Alternate Methods
 - Items too small to mark or items that cannot be marked, i.e. non-metallic material can be controlled by bags, tags and/or boxes

Clause A.5 **Casting Certifications**

Certification of material requirements (chemical and mechanical properties) must bear as a minimum:

- Specification, Revision, Type, Grade, Class, Condition etc.
When a Revision Date is not cited on the Purchase Order, the actual Revision Date used for the required specification must be supplied on the Certificate of Conformance.
- The Signature, Typed or Printed Name and Title of the Person responsible for the testing. Chemical and Mechanical properties reported on certifications shall meet the specification exactly.
- Any weld and NDT procedures used in the process of material must be documented on certifications. Weld Rod certifications must be submitted with certifications.
- Statements on certification documents must be positive and unqualified. Words such as "to the best of our knowledge" or "we believe the information contained herein is true" are not acceptable.
- Material certification data (chemical analysis, mechanical and physical testing) must be recorded on the testing company's letterhead. Certification data supplied to the purchaser shall be either the original mill certification, original certification from the testing facility or exact photocopies of the original certifications.

Marking requirements:

Each shipment of material must be clearly identified to its certifications as pertains to heat numbers, heat codes and/or unique trace code number. Unless otherwise specified, Material Marking Techniques must be in accordance with MIL-STD-792. Die Stamping is not a preferred method. If Die Stamping is utilized only round bottom, low stress Die Stamps are permitted and shall be applied on low stress areas such as a flange rim, boss, or an integral pad.

Clause A.5 (continued)

Casting Visual Examination (a.k.a. “VT”) requirements:

- All castings received from an approved vendor require certification for compliance to MIL-STD-278F, Section 12, Casting Inspection, or S9074-AR-GIB-010/278, as dictated by the Purchase Order.
- Certifications showing the results of Visual Inspection IAW MIL-STD-278 or S9074-AR-GIB-010/278 are required. The Procedure Number, Title, and Revision level that was used shall be referenced on the Certification.
- Marking to confirm Visual Examination
“VT” is to be vibro-etched on the casting to confirm Visual Examination. Blue layout ink shall be applied first to high-light the marking.

Requirements for Radiography of Castings:

When Casting Radiographic examination is required by the Purchase Order or Specification, the Radiographic Technique requirements of MIL-STD-271F or T9074-AS-GIB-010/271 are supplemented by the following:

- EB S/C 76-24: The requirements contained herein shall apply to the seller’s and any sub-tier supplier’s NDT activity performing radiography of castings used in fulfilling the requirements of this purchase order.
 - 1) All radiography of castings (RSSS), when invoked by this purchase order or any sub-tier documents (i.e., fabrication and material specifications, drawings, etc.) must be performed in accordance with an RSSS, which shows film placements and radiation directions to assure adequate radiographic coverage as specified by the Engineering drawing.
 - 2) The contractor or activity performing the radiography shall prepare the RSSS, which shall be validated by a signature of a certified radiographic inspector. The RSSS may be developed independently on a first article casting or as part of the production inspection process. As a minimum, the requirements of 3.4.14 of T9074-AS-GIB-010/271 provides specific detailed requirements which shall be contained on the RSSS.
 - 3) The seller shall forward to the buyer the RSSS, as well as all qualifying radiographs via a properly completed vendor procedure approval request (VPAR). The buyer must approve the RSSS prior to shipment of hardware. All radiographs required to approve the RSSS at the buyer's facility must be sent to the attention of the buyers purchasing department.
 - 4) Radiography of more than one casting per film is prohibited.
 - 5) The following identification shall appear on each radiograph, as a result of exposure of the film:
 - A) RT serial number for the particular casting
 - B) Film location markers
 - 6) Date of exposure shall appear on each radiograph (either by exposure or by punching)
 - 7) Identification of the organization making the radiographs. This shall also appear on the reports accompanying the radiograph submittal.
 - 8) Radiography of a repaired area shall be in accordance with the same technique as used for original radiography. Radiographs shall be identified with the same serial number used for original radiographs followed by the letter R and a numeral 1, 2, etc., to indicate the number of times the area involved has been repaired. (Note: only one RT number per casting).
 - 9) Revisions to radiographic standard shooting sketches (RSSS) to reflect use of NAVSEA Technical Publication T9074-AS-GIB-010/271 or NAVSEA Technical Publication T9074-AR-GIB-010/278 are not mandatory.

- 10) Deviations from an RSSS, except for the permissible variations as noted below, shall be submitted to the buyer for re-approval. Permissible variations are either a substitution for, or a change in the following:
- A) Source strength
 - B) Film quantity and size, provided intended thickness range and areas are shown.
 - C) Film type provided applicable quality level is obtained.
 - D) Penetrameter size (smaller than approved only).
 - E) Reduction of source-to-film distance, if within the limitation of the required specification invoked by the purchase order.
 - F) Source type, if allowed by source substitute table below:

Source shown on RSSS	Allowable substitutes (See Note 2)
Cobalt-60	Iridium-192, X-ray (any voltage), Betatron
Betatron	Iridium-192, X-ray (any voltage), Cobalt-60
Iridium-192	Cobalt-60, X-ray 400 KV maximum (Note 1)
X-ray, 400 KV Maximum	Iridium-192
X-ray, over 400 KV	Iridium-192, X-ray (any voltage), Cobalt-60, Betatron

Notes:

- a) If the approved RSSS allows 4T sensitivity for Iridium-192, this allowance does not apply to the source substituted.
 - b) Where a substitute source is used, the material thickness versus energy ranges used must be consistent with those required by Figures 1, 2 and 3 of T9074-AS-GIB-010/271.
- 11) Permissible variations, including recording the actual material thickness when using a penetrameter larger than specified on the radiographic shooting sketch, must be identified on a suitable form and accompany the radiograph.

a. Chemical Composition Certification:

- Re-melted Master Process-After de-oxidation, the heat pour from a re-melted master heat ingot shall be assigned the same heat number as the master heat for certification of the chemical composition.
- Continuous Cast Process-When continuous cast, or pour, processes are used, test reports shall be of representative samples taken at least twice for each eight (8) to ten (10) hours of operation.
- Statements on certification documents must be positive and unqualified. Words such as "to the best of our knowledge" or "we believe the information contained herein is true" are not acceptable.

b. Mechanical Property Certification:

- All castings shall be heat treated in accordance with the applicable specification (e.g. ASTM A744 and ASTM A296 Table 1 of specification).
- ASTM A216 or ASTM A217 shall be furnished as specified by the purchase order.
- Test bars must be heat treated with the castings they represent.
- Certification of mechanical properties shall be determined from material representing each heat treatment lot.
 - The definition of a lot: Castings originated from the same master heat, size, and configuration and heat treated in the same furnace charge.
 - Heat Treatment Certification is required and shall specify, as a minimum:
 - time and temperature of the heat treatment
 - date performed
 - name of company performing heat treatment
 - resulting hardness, if specified in the material specification

- Statements on certification documents must be positive and unqualified. Words such as "to the best of our knowledge" or "we believe the information contained herein is true" are not acceptable.

Clause A.6 Material Certification Format

- The format for all certifications, for Material, must be in accordance with Data Item DI-MISC-81020, a copy of which can be obtained through Hunt Valve Company or accessed through our website. This format must be followed for ALL Level One material and Non-Level One (excluding chemical and mechanicals).

Clause A.7 Mercury-Free Certification

Material requires Mercury-Free Certification with each shipment. Material furnished under this purchase order shall not contain, nor have been in contact with, mercury in any form. If you suspect external mercury contamination (i.e. caused by mercury bearing instruments and/or equipment broken in the vicinity), you will contact Hunt Valve Company, Inc., purchasing department for instructions immediately. Do not ship prior to contact.

Clause A.7Mod Mercury-Free Commodities Deleted-----3/6/18

Clause A.8 Sub-Tier Passdown of Requirements

All clauses required by the Purchase Order and Purchase Order Continuation Sheet, (except B.2, Government Source Inspection) shall be imposed on each sub-vendor who performs work, tests, or supplies material to meet the terms of this contract.

Clause A.9 Calibration and Quality System Requirements

All measuring and test equipment used to inspect, measure, gauge, test, or control a process to establish or assure compliance to this Purchase Order and/or its invoked drawings/specifications must be calibrated. Calibration shall comply with Mil-Std-45662 at a minimum. Comparable industry standards such as "ISO" will be considered as an alternative. Evidence of these calibrations and their traceability to National Institute of Standards and Technology (NIST) must be maintained and be available for review by Hunt Valve or its customer. This Purchase Order requires a Quality System that complies with Mil-I-45208 at minimum. Comparable industry standards such as "ISO" will be considered as an alternative.

Clause B.1 Facility Access

Hunt Valve reserves the right to have access to your facility for the purpose of a quality survey and/or source inspection by Hunt Valve and its customers, including Government Source Inspection, upon the premises of the vendor. Vendor, without additional cost, shall provide all reasonable facilities and assistance for convenience and safety of such inspectors, as required by Hunt Valve and its customers, including Government Source Inspectors.

Clause B.2 Government Source Inspection (GSI)

Government inspection is required prior to shipment from your plant or sub-vendor's plant, when specified.

- Upon receipt of this Order, promptly notify the Government Representative who normally services your plant so that appropriate planning for Government Inspection can be accomplished.
- On receipt of this Order, promptly furnish a copy to the Government Representative who normally services your plant or, if none, to the nearest Army, Navy, Air Force, or Defense Supply Agency inspection office.
- In the event the representative or office cannot be located, our Purchasing Manager shall be notified immediately.
- Hunt shall provide a copy of Purchase Orders with contract number to our in-house DCMA representative.
- Note: Government inspection/verification at the Vendors:
 - ✓ **Is not, nor can be used as, evidence of effective control of quality by the Vendor**
 - ✓ **Does not absolve the Vendor of responsibility to provide adequate product**
 - ✓ **Does not preclude Subsequent Rejection at HVC, if a Non-Conformance is later identified.**
- Proof of GSI acceptance must be documented on certifications prior to receipt of material at HVC.

Clause B.3 Submarine/Ship Safe Material

These materials or articles are essential to the ship's mission, failure of which, due to nonconformance to specification requirements, would jeopardize personnel safety, vital to shipboard systems or the ship itself. All non-conformances and deviations must be issued to HVC in writing using form Q4.4.4A prior to shipment unless otherwise authorized. Issues will be addressed by HVC Engineering as appropriate and returned to vendor with disposition. Form Q4.4.4A may be obtained through Hunt Valve Company or accessed through our company website.

Clause B.4 Foreign Sourcing Restrictions

- Only domestic raw material (bar, hex, plate, etc.) of US manufacture or alternate material per qualifying countries listed in The Defense Federal Acquisition Regulation Supplement Part 225-Foreign Acquisition, para 225.872-1 is acceptable. Any other material will not be accepted. For suppliers of Specialty Metals reference Defense Acquisition Regulation Supplement Part 252.225-7008 and 252.225-7009 as applicable. Reference prior clause 252.225-7014.
- Objective Quality Evidence (OQE) shall be provided at time of shipment to validate only domestic raw material was used per this clause and applicable FAR clauses.
- Restriction on Ball and Roller Bearings and Components shall be manufactured in the United States or Canada per DFAR 252.225-7016. HVC shall be notified prior to shipment if these requirements cannot be met.
- Restrictions on certain foreign purchases as per Far Clause 52.225-13 also applicable.
HVC SHALL BE NOTIFIED PRIOR TO SHIPMENT IF THESE REQUIREMENTS CANNOT BE MET.

Clause B.5 Deleted --- 3/13/02 --- no longer used.

Clause B.6 Deleted – 03/13/02 – no longer used.

Clause B.7 Welding Requirements

- Production welding and/or weld repair shall be in accordance with MIL-STD-278 or S9074-AR-GIB-010/278, as applicable.
- Weld procedures and personnel shall be qualified in accordance with MIL-STD-248 or S9074-AQ-GIB-010/248, as applicable.
- Nondestructive testing (NDT) shall be in accordance with MIL-STD-271 or T9074-AS-GIB-010/271, as applicable.
- Approval of procedures and qualification data is required from Hunt Valve and HVC's customer. Provide a copy of any previous approvals (VPAR) from Electric Boat, HII Newport News, NAVSEA or DSCC.
- All repair welds require HVC approval, prior to performing repair. (Minor and nominal of castings)
- All repair welding shall be documented on a detailed repair sketch provided to HVC.
- All repair weld records shall be provided for information with final certifications.
- Special Repair Welds and weld repair to forgings require advance approval from HVC and /or HVC Customer, prior to performing the repair and will only be considered on high value material.
- Any violation of Purchase Order requirements or invoked specifications will be cause for rejection.
- Vendor invoice will not be processed for payment unless all requirements of the Purchase Order are in compliance.

Clause B.8 Deleted 11/23/05 Clause incorporated with Clause A.9

Clause B.9 Deleted 1/10/06 Special Requirements defined in body of Purchase Order



V. FAR and DFAR Clauses

Acceptance of this Agreement indicates that the contractor agrees to comply with the following requirements, which are required by Federal Law, regulations and/or Executive Orders.

A. INCORPORATION OF FAR/DFARS CLAUSES

The Federal Acquisition Regulation (FAR) clauses and Defense Federal Acquisition Regulation Supplement (DFARS) clauses referenced below are incorporated herein by reference, with the same force and effect as if they were given in full text, and are applicable, including any notes following the clause citation, to this Agreement. If the date or substance of any of the clauses listed below is different from the date or substance of the clause actually incorporated into the Prime Contract referenced by number herein, the date or substance of the clause incorporated by said Prime Contract shall apply instead.

B. GOVERNMENT SUBCONTRACT

1. This Agreement is entered into by the parties in support of a U.S. Government contract.
2. As used in the FAR clauses referenced below and otherwise in this Agreement, the following terms shall be revised to suitably identify the contracting parties herein and effect the proper intent of the clause or provision:
 - i. “Commercial Item” means a commercial item as defined in FAR 2.101.
 - ii. “Contract” means this Agreement.
 - iii. “Contracting Officer” shall mean the U.S. Government Contracting Officer for the prime contract under which this Agreement is entered.
 - iv. “Contractor” and “Offeror” means the Contractor, as defined in this Agreement, acting as the immediate subcontractor to Hunt Valve.
 - v. “Prime Contract” means the contract between Hunt Valve and the U.S. Government or between Hunt Valve and its higher-tier contractor who has a contract with the U.S. Government.
 - vi. “Subcontract” means any contract placed by the Contractor or lower-tier subcontractors under this Agreement.

C. NOTES

The following notes apply to the clauses incorporated by reference below only when specified in the parenthetical phrase following the clause title and date.

1. Substitute “Hunt Valve” for “Government” or “United States” as applicable throughout these clauses.
2. Substitute “Hunt Valve Representative” for “Contracting Officer”, “Administrative Contracting Officer”, and “ACO” throughout these clauses.



3. Insert “and Hunt Valve” after “Government” or “Contracting Officer,” as appropriate, throughout these clauses.
4. Insert “or Hunt Valve” after “Government” throughout these clauses.
5. Communication/notification required under these clauses from/to the Contractor and to/from the Contracting Officer shall be through Hunt Valve.

D. AMENDMENTS REQUIRED BY PRIME CONTRACT

Contractor agrees that upon the request of Hunt Valve it will negotiate in good faith with Hunt Valve relative to amendments to this Agreement to incorporate additional provisions herein or to change provisions hereof, as Hunt Valve may reasonably deem necessary in order to comply with the provisions of the applicable Prime Contract or with the provisions of amendments to such Prime Contract. If any such amendment to this Agreement causes an increase or decrease in the cost of, or the time required for, performance of any part of the Work under this Agreement, an equitable adjustment shall be made pursuant to the “Differing Conditions” clause of this Agreement.

E. FLOW DOWN

Contractor agrees to flow down all mandatory clauses and/or all clauses required to satisfy contractor’s contractual obligations to Hunt Valve to lower-tier subcontractors, where applicable.

F. PROVISIONS OF FAR/DFARS INCORPORATED BY REFERENCE

FAR 52.202-1	DEFINITIONS (Nov 2013)
FAR 52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (Sep 2006) (Applicable when the contract amount is expected to exceed the simplified acquisition threshold; ALT I shall apply to contracts for the acquisition of commercial items)
FAR 52.203-7	ANTI-KICKBACK PROCEDURES (May 2014) (Applicable when the contract amount is expected to exceed the simplified acquisition threshold, except for commercial item acquisitions)
FAR 52.203-11	CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (Sept 2007) (Applicable when the contract amount is expected to exceed \$150,000)
FAR 52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (Oct 2010) (Applicable when the contract amount is expected to exceed the simplified acquisition threshold)
FAR 52.203-13	CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT (Oct 2015) (Applicable when the contract amount exceeds \$5.5 million and includes a performance period of more than 120 days)



- FAR 52.203-14 DISPLAY OF HOTLINE POSTERS (Oct 2015) (Applicable when the contract amount exceeds \$5.5 million, except if the contract is for the acquisition of a commercial item or is performed entirely outside the U.S.)
- FAR 52.203-15 WHISTLEBLOWER PROTECTIONS UNDER THE AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (Jun 2010) (Applicable when the contract is funding in whole or in part with funds from the American Recovery and Reinvestment Act of 2009)
- FAR 52.203-17 CONTRACTOR EMPLOYEE WHISTLEBLOWER RIGHTS AND REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (Apr 2014) (Applicable when the contract amount exceeds the simplified acquisition threshold)
- FAR 52.204-2 SECURITY REQUIREMENTS (AUG 1996) (Applicable when the contract involves access to classified information)
- FAR 52.204-9 PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (Jan 2011) (Applicable when the contractor's employees are required to have routine physical access to a Federally-controlled facility and/or routine access to a Federally-controlled information system.)
- FAR 52.209-5 CERTIFICATION REGARDING RESPONSIBILITY MATTERS (Oct 2015)
- FAR 52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (Oct 2015) (Applies when the contract amount exceeds \$35,000 and is for the acquisition of other than commercially available off-the-shelf items)
- FAR 52.211-5 MATERIAL REQUIREMENTS (Aug 2000) (Applicable when the contract is for supplies that are not commercial items)
- FAR 52.215-12 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA (Oct 2010) (Applicable when the contract requires submission of certified cost or pricing data)
- FAR 52.215-13 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA—MODIFICATIONS (Oct 2010) (Applicable when the contract requires submission of certified cost or pricing data)
- FAR 52.215-14 & ALT I INTEGRITY OF UNIT PRICES (Oct 2010) (Applicable when the contract amount exceeds the acquisition threshold and is for other than construction or architect-engineer services, utility services, services where supplies are not required, commercial items, or petroleum products)
- FAR 52.215-15 PENSION ADJUSTMENTS AND ASSET REVERSIONS (Oct 2010) (Applicable for contracts when it is anticipated that certified cost or pricing data will be required or for which any preaward or postaward cost determinations will be subject to FAR part 31)
- FAR 52.215-18 REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS (Jul 2005) (Applicable for contracts when it is anticipated that certified cost or pricing data will be required or for which any preaward or postaward cost determinations will be subject to FAR part 31)



FAR 52.215-19	NOTIFICATION OF OWNERSHIP CHANGES (Oct 1997) (Applicable for contracts when it is anticipated that certified cost or pricing data will be required or for which any preaward or postaward cost determinations will be subject to FAR part 31)
FAR 52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS (Nov 2016) (Applicable where the contract amount is expected to exceed the simplified acquisition threshold unless a personal services contract is contemplated or the contract will be performed)
FAR 52.222-4	CONTRACT WORK HOURS AND SAFETY STANDARDS —OVERTIME COMPENSATION (May 2014) (Applicable when the contract may require or involve the employment of laborers or mechanics)
FAR 52.222-11	SUBCONTRACTS (LABOR STANDARDS) (May 2014) (Applicable when the contract is for construction within the U.S.)
FAR 52.222-20	CONTRACTS FOR MATERIALS, SUPPLIES, ARTICLES, AND EQUIPMENT EXCEEDING \$15,000 (May 2014) (Applicable when the contract is for the manufacture or furnishing of materials, supplies, articles or equipment in an amount that exceeds or may exceed \$15,000 and is subject to 41 U.S.C. chapter 65)
FAR 52.222-21	PROHIBITION OF SEGREGATED FACILITIES (Apr 2015) (Applicable when the contract is subject to FAR 52.222-26)
FAR 52.222-26	EQUAL OPPORTUNITY (Apr 2015) (Applicable unless the contract is exempt under FAR 22.807(a))
FAR 52.222-35	EQUAL OPPORTUNITY FOR VETERANS (Oct 2015) (Applicable when the contract amount equals or exceeds \$150,000, unless exempted by rule, regulation or order of the Secretary of Labor)
FAR 52.222-36	EQUAL OPPORTUNITY FOR WORKERS WITH DISABILITIES (Jul 2014) (Applicable when the contract amount equals or exceeds \$150,000, unless exempted by rule, regulation or order of the Secretary of Labor)
FAR 52.222-37	EMPLOYMENT REPORTS ON VETERANS (Feb 2016) (Applicable when the contract amount equals or exceeds \$150,000, unless exempted by rule, regulation or order of the Secretary of Labor)
FAR 52.222-40	NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS ACT (Dec 2010) (Applicable when the contract amount exceeds \$10,000 and will be performed wholly or partially in the U.S., unless exempted by rule, regulation, or order of the Secretary of Labor)
FAR 52.222-50	COMBATING TRAFFICKING IN PERSONS (Mar 2015)



FAR 52.222-54	EMPLOYMENT ELIGIBILITY VERIFICATION (Oct 2015) (Applicable when the contract amount exceeds \$3,500, includes work performed in the U.S., and is for construction or is for commercial or noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item))
FAR 52.223-7	NOTICE OF RADIOACTIVE MATERIALS (Jan 1997) (Applicable when the contract is for radioactive materials meeting the criteria set forth in section (a) of this clause)
FAR 52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (Aug 2011) (Applicable when the contract amount exceeds the micro-purchase threshold)
FAR 52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (Jun 2008)
FAR 52.227-1 & ALT I	AUTHORIZATION AND CONSENT (Dec 2007) (Applicable when the contract amount is expected to exceed the simplified acquisition threshold)
FAR 52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (Dec 2007) (Applicable when the contract amount is expected to exceed the simplified acquisition threshold)
FAR 52.227-9	REFUND OF ROYALTIES (Apr 1984) (Applicable if the amount of royalties reported during negotiation of the contract exceeds \$250)
FAR 52.227-10	FILING OF PATENT APPLICATIONS—CLASSIFIED SUBJECT MATTER (Dec 2007) (Applicable when the contract covers or is likely to cover classified subject matter)
FAR 52.227-11	PATENT RIGHTS—OWNERSHIP BY THE CONTRACTOR (May 2014) (Applicable when the contract is for experimental, developmental, or research work to be performed by a small business concern or nonprofit organization)
FAR 52.227-13	PATENT RIGHTS—OWNERSHIP BY THE GOVERNMENT (Applicable when the contract is for experimental, developmental, or research work)
FAR 52.230-2	COST ACCOUNT STANDARDS (Oct 2015) (Applicable when the contract amount exceeds \$750,000, unless exempt from CAS coverage)
FAR 52.230-3	DISCLOSURE AND CONSISTENCY OF COST ACCOUNTING PRACTICES (Oct 2015) (Applicable when the contract amount exceeds \$750,000, unless exempt from CAS coverage)
FAR 52.230-4	DISCLOSURE AND CONSISTENCY OF COST ACCOUNTING PRACTICES—FOREIGN CONCERNS (Oct 2015) (Applicable when the contract amount exceeds \$750,000, unless exempt from CAS coverage)



FAR 52.230-5	COST ACCOUNTING STANDARDS—EDUCATIONAL INSTITUTION (Aug 2016) (Applicable when the contract amount exceeds \$750,000, unless exempt from CAS coverage)
FAR 52.230-6	ADMINISTRATION OF COST ACCOUNTING STANDARDS (Jun 2010) (Applicable when the contract amount exceeds \$750,000, unless exempt from CAS coverage)
FAR 52.232-40	PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS (Dec 2013) (Applicable when the contract is with a small business concern)
FAR 52.234-1	INDUSTRIAL RESOURCES DEVELOPED UNDER DEFENSE PRODUCTION ACT TITLE III (Sept 2016)
FAR 52.242-17	GOVERNMENT DELAY OF WORK (Apr 1984) (Applicable to fixed-price contracts)
FAR 52.243-1 & ALT I, II	CHANGES—FIXED-PRICE (Aug 1987) (Applicable to fixed-price contracts)
FAR 52.243-2 & ALT I, II	CHANGES—COST-REIMBURSEMENT (Aug 1987) (Applicable to cost-reimbursement contracts)
FAR 52.243-3	CHANGES—TIME-AND-MATERIALS OR LABOR-HOURS (Sept 200) (Applicable to time-and-materials or labor-hours contracts)
FAR 52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS (Dec 2017)
FAR 52.245-1	GOVERNMENT PROPERTY (Apr 2012) (Applicable when Government property is acquired or furnished for performance of the contract)
FAR 52.246-17	WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (Jun 2003) (Applicable to contracts when the inclusion of a warranty is appropriate)
FAR 52.246-20	WARRANTY OF SERVICES (May 2001) (Applicable for fixed-price contracts where the use of a warranty clause has been approved under the prime contract)
FAR 52.247-63	PREFERENCE FOR U.S.-FLAG AIR CARRIERS (Jun 2003) (Applicable when the contract may involve international air transportation)
FAR 52.247-64	PREFERENCE FOR PRIVATELY OWNED U.S.-FLAG COMMERCIAL VESSELS (Applicable when the contract may involve ocean transportation of supplies)
FAR 52.248-1	VALUE ENGINEERING (Oct 2010) (Applicable when the contract amount exceeds \$150,000)
FAR 52.249-1	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (Fixed-Price) (Short Form) (Apr 1984) (Applicable to fixed-price contracts not expected to exceed the simplified acquisition threshold)



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- FAR 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (Fixed-Price) (Apr 2012) (Applicable to fixed-price contracts expected to exceed the simplified acquisition threshold)
- FAR 52.249-6 TERMINATION (Cost-Reimbursement) (Applicable to cost-reimbursement contracts)
- FAR 52.249-8 DEFAULT (Fixed-Price Supply and Service) (Apr 1984) (Applicable to fixed-price contracts)
- FAR 52.215-2 AUDIT AND RECORDS—NEGOTIATION (Oct 2010) (Applicable when the contract exceeds the simplified acquisition threshold and is a cost-reimbursement, incentive, time-and-materials, labor-hour, or price-redeterminable type contract (or any combination thereof) that requires the contractor to submit cost, funding, or performance reports)
- FAR 52.215-23 LIMITATIONS ON PASS-THROUGH CHARGES (Oct 2009) (Applicable when the contract amount exceeds the simplified acquisition threshold and is a cost-reimbursement contract under a non-DoD prime contract; when the prime contract is with the DoD, applicable when the contract amount exceeds the simplified acquisition threshold and is cost-reimbursement or fixed price, except as provided in FAR 15.408(n)(2)(i)(B)(2))
- DFARS 252.203-7001 PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES (Dec 2008) (Applicable when the contract amount exceeds the simplified acquisition threshold)
- DFARS 252.203-7002 REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (Sep 2013)
- DFARS 252.203-7004 DISPLAY OF HOTLINE POSTERS (Oct 2016) (Applicable when the contract amount exceeds \$5.5 million, except when the contract is for commercial items)
- DFARS 252.204-7000 DISCLOSURE OF INFORMATION (Oct 2016) (Applicable when the contractor will have access to or generate unclassified information that may be sensitive and inappropriate for release to the public)
- DFARS 252.204-7010 REQUIREMENT FOR CONTRACTOR TO NOTIFY DoD IF THE CONTRACTOR'S ACTIVITIES ARE SUBJECT TO REPORTING UNDER THE U.S.-INTERNATIONAL ATOMIC ENERGY AGENCY ADDITIONAL PROTOCOL (Jan 2009) (Applicable when the contract is subject to the provisions of the U.S.-IAEA AP)
- DFARS 252.204-7012 SAFEGUARDING COVERED DEFENSE INFORMATION AND CYBER INCIDENT REPORTING (Oct 2016) (Applicable when the contract is for operationally critical support, or when performance will involve a covered contractor information system)
- DFARS 252.204-7015 DISCLOSURE OF INFORMATION TO LITIGATION SUPPORT CONTRACTORS (May 2016)



- DFARS 252.208-7000 INTENT TO FURNISH PRECIOUS METALS AS GOVERNMENT-FURNISHED MATERIAL (Dec 1991) (Applicable unless the contractor knows that the item being purchased contains no precious metals)
- DFARS 252.211-7000 ACQUISITION STREAMLINING (Oct 2010) (Applicable when the contract amount exceeds \$1.5 million)
- DFARS 252.211-7003 ITEM UNIQUE IDENTIFICATION AND VALUATION (Mar 2016) (Applicable when the contract is for any for which unique identification is required in accordance with (c)(1) of this clause)
- DFARS 252.223-7008 PROHIBITION OF HEXAVALENT CHROMIUM (June 2013) (Applicable when the contract is for supplies, maintenance and repair services, or construction materials)
- DFARS 252.225-7007 PROHIBITION ON ACQUISITION OF UNITED STATES MUNITIONS LIST ITEMS FROM COMMUNIST CHINESE MILITARY COMPANIES (Sep 2006) (Applicable when the contract is for items covered by the U.S. Munitions List)
- DFARS 252.225-7009 RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS (Oct 2014) (Applicable when the contract is for items containing specialty metals)
- DFARS 252.225-7013 DUTY-FREE ENTRY (May 2016) (Applicable when the contract is for qualifying county components, as prescribed in this clause, or for nonqualifying country components for which the contractor estimates that duty will exceed \$200 per unit)
- DFARS 252.225-7016 RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS (Jun 2011) (Applicable unless the contract is for commercial items or items that do not contain ball or roller bearings)
- DFARS 252.225-7019 RESTRICTIONS ON ACQUISITION OF ANCHOR AND MOORING CHAIN (Dec 2009) (Applicable when the contract is for items containing welded shipboard anchor and mooring chain, four inches or less in diameter)
- DFARS 252.225-7025 RESTRICTION ON ACQUISITION OF FORGINGS (Dec 2009) (Applicable when the contract is for forging items or for other items that contain forging items)
- DFARS 252.225-7033 WAIVER OF UNITED KINGDOM LEVIES (Apr 2003) (Applicable when the contract is with a U.K. firm and anticipated to exceed \$1 million)
- DFARS 252.225-7048 EXPORT CONTROLLED ITEMS (Jun 2013)
- DFARS 252.226-7001 UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS (Sep 2004) (Applicable when the contract amount exceeds \$500,000)
- DFARS 252.227-7013 RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS (Feb 2014) (Applicable when the contractor will be required to deliver to the government technical data pertaining to noncommercial items or pertaining to commercial items for which the government will have paid for any portion of the development costs)



- DFARS 252.227-7014 RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION (Feb 2014) (Applicable when the contractor will supply noncommercial computer software or computer software documentation for delivery to the government)
- DFARS 252.227-7015 TECHNICAL DATA--COMMERCIAL ITEMS (Feb 2014) (Applicable when the contractor will supply technical data related to commercial items developed in any part at private expense for delivery to the government)
- DFARS 252.227-7016 RIGHTS IN BID OR PROPOSAL INFORMATION (Jan 2011)
- DFARS 252.227-7018 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (Feb 2014) (Applicable when the contractor will supply noncommercial technical data or computer software for delivery to the government)
- DFARS 252.227-7019 VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE (Sep 2016) (Applicable when the contractor will supply computer software for delivery to the government)
- DFARS 252.227-7037 VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA (Jun 2013) (Applicable when the contract requires the delivery of technical data)
- DFARS 252.227-7038 PATENT RIGHTS—OWNERSHIP BY THE CONTRACTOR (LARGE BUSINESS) (June 2012) (Applicable when the contract involves experimental, developmental, or research work to be performed by other than a small business concern or nonprofit organization)
- DFARS 252.235-7003 FREQUENCY AUTHORIZATION (Mar 2014) (Applicable when the contract involves the development, production, construction, testing, or operation of a device for which a radio frequency authorization is required)
- DFARS 252.237-7023 CONTINUATION OF ESSENTIAL CONTRACTOR SERVICES (Oct 2010) (Applicable when the contract involves the supply of “essential contractor services” as defined in the (a)(1) of the clause)
- DFARS 252.239-7016 TELECOMMUNICATIONS SECURITY EQUIPMENT, DEVICES, TECHNIQUES, AND SERVICES (Dec 1991) (Applicable when the contract requires securing telecommunications)
- DFARS 252.244-7000 SUBCONTRACTS FOR COMMERCIAL ITEMS (Jun 2013)
- DFARS 252.246-7003 NOTIFICATION OF POTENTIAL SAFETY ISSUES (Jun 2013) (Applicable when the contract is for parts identified as critical safety items, systems and subsystems, assemblies and subassemblies integral to a system, or repair, maintenance, logistics support, or overhaul services for systems and subsystems, assemblies, subassemblies, and parts integral to a system, as those terms are defined in the clause)



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- DFARS 252.246-7007 CONTRACTOR COUNTERFEIT ELECTRONIC PART DETECTION AND AVOIDANCE SYSTEM (Aug 2016) (Applicable when the contract is for electronic parts or assemblies containing electronic parts)
- DFARS 252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (Apr 2014) (Applicable when the contract involves transportation of supplies by sea for a prime contract for construction or if the supplies being transported are noncommercial items or commercial items that the contractor is reselling or distributing to the government without adding value, are shipped in direct support of U.S. military contingency operations, exercises, or forced deployed on humanitarian or peacekeeping operations, or are commissary or exchange cargoes transported outside the Defense Transportation System in accordance with 10 U.S.C. 2643)
- DFARS 252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA (Mar 2000) (Applicable when the contract involves transportation of supplies by sea for a prime contract for construction contract or if the supplies being transported are noncommercial items or commercial items that the contractor is reselling or distributing to the government without adding value, are shipped in direct support of U.S. military contingency operations, exercises, or forced deployed on humanitarian or peacekeeping operations, or are commissary or exchange cargoes transported outside the Defense Transportation System in accordance with 10 U.S.C. 2643)
- DFARS 252.225-7993 PROHIBITION ON CONTRACTING WITH THE ENEMY (Deviation 2014-O0008) (FEB 2014) (Applicable when the contract amount exceeds \$50,000)
- DFARS 252.225-7994 ADDITIONAL ACCESS TO CONTRACTOR AND SUBCONTRACTOR RECORDS IN THE UNITED STATES CENTRAL COMMAND THEATER OF OPERATIONS (Deviation 2014-O0008) (FEB 2014) (Applicable when the contract amount exceeds \$100,000)
- NAVSEA 5252.227-9101 TRANSMISSION ABROAD OF EQUIPMENT OR TECHNICAL DATA RELATING TO THE NUCLEAR PROPULSION OF NAVAL SHIPS (Jan 2008) (Applicable when the contract involves supplies related to the nuclear propulsion of naval ships, unless the transmittal or authorization for the transmittal of equipment or technical data is to be made pursuant to a contract or agreement to which the United States is a party and the transmittal is to be of equipment or technical data which the prime contractor's contracting officer, or designated representative, has declared in writing to be thereafter exempt from this requirement)
- Executive Orders 11246 & 11375 NONDISCRIMINATION
- Executive Order 13201 NOTICE OF EMPLOYEE RIGHTS CONCERNING PAYMENT OF UNION DUES OR FEES