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Distribution:

Quality Assurance Supervisor
- Configuration Management

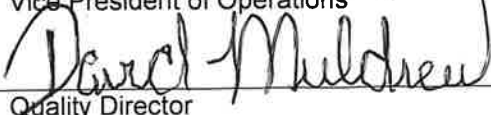
All Buyers
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Approved by



Vice President of Operations



Quality Director



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Revision	Description	Date	Signature
B	Original Issue	12/13/95	JPM
C	Changed format of document and added Materials Manager to approval.	05/15/98	RW
D	Added note at bottom of page 15.	06/02/99	CH
E	Changed First Article Requirements on page 8	10/31/00	RG
F	Changed 45 hours to 48 hours on No. 23 updated Signature page	11/06/01	SAB
G	Removed all references to "blanks" and renumbered	07/22/02	SAB
H	Reversed change "G" so that JIT matches the Procedure. And updated Signature page. Added 49A Bubble wrap or individual packaging on all aluminum and porous metal castings, fittings, etc. received by AMFUEL. (ref. packaging spec PK-93). Any materials not properly packaged will be returned to the vendors at their cost	08/25/03	FWH
J	Added supplement for SQAR'S 1271, 1451, and 2247	02/10/04	FWH
K	Added First Article Requirement in accordance with AS9102, SQR 29 and supplement	07/20/04	FWH
L	Added SQAR 58 Boeing approved sources	10/28/04	FWH
M	Deleted Supplement SQAR's 1271, 1451, and 2247. Deleted duplicate sections 5.0.1 Quality Systems Requirements, 5.02 Documentation Requirements, 5.03 Packaging Requirements, 5.0.5 Customer Approved Sources, 5.0.6 Reservation of Government and Customer Rights, 5.10 First Article Requirements. Moved 5.04 Identification Requirements to SQAR 50, 5.7 Special Processes and Raw materials to SQAR 15, 5.3 Raw Materials (metals) Verification to SQAR 16, 5.5 Certification Requirements to SQAR 17, 5.2.1 MIL-A-8625 Anodic Coatings for Aluminum Alloys to SQAR 18, MIL-C-5541 Chemical Conversion Coatings on Aluminum and Aluminum Alloys to SQAR 18A, 5.6 Defense Priorities and Allocation system 15CFR350 to SQAR 61, 5.8 680-2 Manufacturing and Inspection Specification for fitting Rings to SQAR 60, 5.9 Concession / Deviation Request to SQAR 62.	11/24/09	RKM
N	Added Boeing D37521-1 rev. 2-2-09 clause (Material) Suppliers part Protection Guide for wood packaging materials (lumber)	02/25/10	RKM
P	Added 38B-1, 38B-2, 38B-3 & 38B-4 to provide details of Corrective Action process.	11/08/10	DF
Q	Added references to ISO9001/AS9100 to section I SQAR 1 and SQAR 2.	6/16/11	RW
R	Added requirements to section 1. Reworded section 2. Added SQAR 64	6/22/11	RW
S	Added SQAR 65, 66, 67	7/08/11	RW
T	Reformatted Document. Changed title in "Approved by" box. Added "current revision verification" statement to Page 1 due to unavailability of document on website.	01/02/14	DF

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Revision	Description	Date	Signature
U	SQAR 3, for Calibration Service suppliers add "...and/or accredited to ISO/IEC 17025."	05/23/14	DF
V	Removed "Receiving Inspection" from Distribution. Changed signature block – removed date. SQAR 68 – Changed seven (7) years to ten (10) for test data.	08/12/14	DF
W	Added SQAR 69	12/03/14	DF
X	Changed logo in header	07/15/15	DF
Y	Updated logo in header. Correct typographical errors in SQAR 1, 2, 23. SQAR 16 Obsolete.		
Z	Corrected typographical errors. Corrected signature block	09/10/21	DM
AA	Corrected shelf life from 75% to 85% on page 14 #52	02/15/23	DM

Section I - Quality System Requirements

1. Inspection Systems

ISO9001/AS9100

The supplier may maintain an inspection system which meets the requirements of ISO9001/AS9100. Any changes to the vendor's product/plan/procedures/processes subsequent to the start of fabrications shall be provided to Amfuel prior to implementation.

MIL-I-45208A*

At a minimum, the supplier shall maintain an inspection system which meets the requirements of MIL-I-45208A, Inspection System Requirements with the following modifications: Paragraph 3.11, "Government Inspection at Subcontractor or Supplier Facilities". The term Government shall be interpreted to mean Government or Amfuel. In all paragraphs other than 3.6 and 3.11 the term "Government" shall mean Amfuel, and the term "Contractor" shall mean supplier.

*For pre-existing government military programs MIL-I-45208A may be required

2. Product Assurance Program

ISO9001/AS9100

The Supplier Product Assurance Program may conform to the requirements of ISO9001/AS9100.

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MIL-Q-9858A*

At a minimum, the Supplier's Product Assurance Program shall conform to the requirements of MIL-Q-9858A, "Quality Program Requirements" with the following modifications:

Paragraph 7.0, "Coordinated Government/Contractual Actions" shall be considered to apply to vendor organization in relationship to actions coordinated with the Government only. In all paragraphs other than 7.0 the term "Government" shall mean Amfuel, and the term "Contractor" shall mean the supplier.

The supplier shall provide to Amfuel, prior to fabrication, a quality control plan including, as a minimum, a flow chart depicting sequential points for the article(s) procured and in addition a narrative description explaining each of the manufacturing points shown in sufficient detail to communicate an understanding of occurring events. Inspection, test and acceptance points shown shall be explicitly described including features being examined, special tooling used, nature of documentation generated, use or certified personnel and process, interchangeability demonstrations and the like. Any changes to the vendor's product / plan / procedures / processes subsequent to the start of fabrications shall be provided to Amfuel prior to implementation.

*For pre-existing government military programs MIL-Q-9858A may be required

3. Calibration System

The supplier shall have a calibration program which meets the requirements of ISO 10012 and/or accredited to ISO/IEC 17025.

4. Acceptance Test Procedure

The supplier shall develop separate detailed test procedures which encompass the final acceptance/verification requirements of the specification(s) listed in the purchase order. This Acceptance Test Procedure and subsequent changes shall be approved by Amfuel Quality Assurance prior to use.

5. Qualification Test Procedure

The supplier shall develop and submit a detailed Qualification Test Procedure (QTP) which encompasses all qualification requirements in the specification listed in the purchase order. This QTP and all subsequent changes shall be approved by Amfuel Quality Assurance prior to use.

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9. Shipping Documents

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The supplier shall comply with DD-1149 and Commercial Shipping Documents/Packing List.

10. Configuration Control

The supplier shall be responsible for controlling changes to parts/components manufactured to Amfuel/Supplier drawings and Amfuel/Supplier specifications to ensure that the end product meets Amfuel specified configuration requirements.

With each lot or parts or components shipped, the supplier shall submit a configuration summary record. This record shall include the following:

- A. Amfuel purchase order number and applicable change order number.
- B. Drawing number, revision level, and applicable engineering change order number.
- C. Part number including dash number(s).
- D. Part/Serial numbers or lot numbers, if applicable.

11. Proprietary Items and Processes

Suppliers engaged in the manufacture or processing of proprietary items and processes will notify Amfuel of any change prior to shipment.

12. Group I Purchase

Group I Purchase in accordance with MIL-STD-1535 applies to this order.

13. Group II Purchase

Group II Purchase in accordance with MIL-STD-1535 applies to this order.

14. Group III Purchase

Group III Purchase in accordance with MIL-STD-1535 applies to this order.

Section II - Nondestructive Testing/Special Process Requirements

15. Special Processing

The supplier or his selected sub-tier processor is required to have written processing and process control documentation for items supplied. Special processes include, but not limited to, Radiography, Ultrasonic, Magnetic Particle, Liquid Penetrant, Heat Treatment, Welding, Soldering, Chemical Films, Plating, Eddy Current, Physical (Destructive) Testing, Potting and Molding, Conformal Coating, Environmental Testing, Priming, Printing or as directed by Amfuel customers. Supplier shall only use approved subcontractors as listed on form 602.1 Subcontractor Approval / Disapproval for all product and services supplied to Amfuel.

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15A. Special processes must be accomplished by process sources approved by the supplier's quality program. The supplier remains accountable for his sub-tier supplier's performance and compliance to the Amfuel Purchase Order specifications and requirements. Where defined by Amfuel, supplier will be required to use customer directed sub-tier processors.

With each shipment of any contract line item requiring special processing, the supplier will provide a detailed Certification of Conformance depicting the following:

- A. Name of process required and performed.
- B. Special process specification number & revision
- C. Name, address, and phone number of special processor
- D. Amfuel Purchase Order Number
- E. Amfuel Part Number and Revision

15B. Article Identification

If a withhold tag is attached to any article(s) submitted to you for processing by Amfuel, identification or affected article(s) must be maintained. e.g. article(s) shall be returned to Amfuel with withholding tag affixed to affected articles(s).

16. OBSOLETE

17. Certification Requirements

A Certificate of Conformance must accompany each shipment of the product. The C of C must contain, but not be limited to the following information:

- Unique lot number
- Amfuel Part number
- Drawing revision product was manufactured to.
- Amfuel purchase order number
- Evidence of inspection. (i.e. quantity inspected, quantity accepted, quantity rejected)

18. Plating **MIL-A-8625 Anodic Coatings for Aluminum Alloys**

Types I, IB, IC, II, and IIB Coatings

All plating subcontractors used by Supplier to coat a product supplied to Amfuel shall perform testing in accordance with MIL-A-8625, Type I, IB, IC, II, and IIB as applicable per paragraph 3.7 Detail Requirements, 3.7.2.2 Abrasion Resistance and 4.3 Process Control Inspection, 4.3.2 Solution Analysis.

Type III Coatings

All plating subcontractors used by Supplier to coat product supplied to Amfuel shall perform testing in accordance with MIL-A-8625, Type III, as applicable per paragraph 3.7 Detail Requirements, 3.7.2.1



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Thickness of Coating, 3.7.2.2 Abrasion Resistance and 4.3 Process Control Inspection, 4.3.2 Solution Analysis.

A monthly detailed test report shall be submitted no later than the 10th day of each month to Amfuel's Supervisor of Quality Assurance for review.

18A. MIL-C-5541, Chemical Conversion Coatings on Aluminum and Aluminum Alloys

Class 1A and 3 Coatings

All plating subcontractors used by supplier to coat product supplied to Amfuel shall perform MIL-C-5541 CL 1A and 3 per paragraph 4.3 Process Control Inspection, 4.3.1 Process Control and Solution Analysis and 4.5 Test Methods, 4.5.1 Corrosion Resistance Test.

A monthly detailed test report shall be submitted no later than the 10th day of each month to Amfuel's Supervisor of Quality Assurance for review.

19. Weld Qualification Samples

Weld qualification samples shall be submitted to Amfuel for evaluation prior to commencing production. Commencing production prior to Amfuel approval is at supplier's risk.

20. Test Samples

Test samples for heat treatment, tensile test, casting, or forging shall be submitted concurrent with the first part/material shipment.

Note: All samples shall be clearly marked to indicate material, lot, or patch control.

Section III - Inspection Requirements

21. Amfuel Quality Assurance Source

Amfuel Quality Assurance acceptance of article(s) is required at supplier's facility prior to shipment. Supplier shall notify Amfuel Quality Assurance Department (8 at least three (3) days prior to final inspection.

Supplier shall furnish to the quality assurance representative verifiable evidence that the supplies meet the requirements of this order, shall furnish a copy of this order as amended with applicable drawings, and other approved acceptance criteria, and shall furnish an inspector and equipment to physically inspect the supplies to verify dimensional conformance.

22. Amfuel Source Inspection of First Delivery

Amfuel Source inspection is required on the first delivery of parts pertaining to this Purchase Order. Before assembly of contracts end item on first order, Amfuel acceptance is required on detail parts.

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Amfuel source inspection is also required on assembled parts and acceptance test, if applicable, on first delivery.

23. Test Verification

Amfuel Source verification is required for acceptance tests, qualification tests, and environmental test performed on items of this procurement. Amfuel Quality Assurance Representative shall be notified 48 hours in advance of scheduled testing. Copies of the purchase order, test procedures, and related correspondence shall be made available upon arrival at supplier's facility.

24. Amfuel Source Verification For Non-destructive Tests

Amfuel source verification is required for non-destructive test performed on articles of this procurement. Amfuel Quality Assurance Representative shall be notified 48 hours in advance of scheduled testing. Copies of the purchase order, test procedures, and related correspondence shall be made available upon arrival at supplier's facility.

25. Government Inspection

Government inspection is required prior to shipment from your facility. Upon receipt of this order, promptly notify the Government Representative who normally services your facility so that appropriate planning for Government inspection can be accomplished. The Government QAR shall also be notified 48 hours in advance of the time articles and materials are ready for inspection or tests. Should supplier wish, Amfuel and Government to perform inspection concurrently; supplier shall perform coordination.

26. Government Inspection (Continued)

The supplier shall furnish copies of purchasing documents to the Government Representative, upon his request. In the event the representative or office cannot be located, Amfuel Procurement Agent should be notified immediately.

27. Optional Amfuel Quality Assurance Source Inspection

Amfuel Source Inspection may be required on this order. If the supplier is notified in writing by Amfuel of mandatory inspection points, the supplier will be required to notify Amfuel Quality Assurance 48 hours in advance of shipment. Shipments shall not be made without accompanying source release inspection stamp by Amfuel Quality Assurance Representative or a waiver issued by Amfuel Quality Representative. Copies of the purchase order with change orders and related documents shall be made available to Amfuel Quality Assurance Representative upon arrival at supplier's facility.

28. Reservation of Government and Customer Rights

Amfuel or Amfuel's customer and/or regulatory agency shall be afforded the right of access at the supplier's and/or supplier's subcontractor's facility to verify that subcontracted product and/or services

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conform to specified requirements. Such verification shall not be used as evidence of effective control of quality nor does verification by the customer absolve the supplier of the responsibility to provide acceptable products and/or services. Verification by the customer does not preclude rejection by the customer.

29. First Article Inspection

A First Article Inspection (FAI) is required:

- If this is the first time that that supplier is producing a specific item
- There has been a break in production of more than 12 months.
- The supplier has made a significant change in the process.
- There has been a drawing change since the last time the item was produced.

All drawing characteristics, including ASTM tests, chemical & physical properties, etc. must be checked/completed and recorded in the FAI package. The supplier shall establish and maintain internal processes for the accomplishment of each First Article Inspection in accordance with AS9102A. This documentation and all test reports/certifications must be packaged, clearly marked as FAI Reports and accompany the first shipment.

Copies of AS9102A may be obtained form Society of Automotive Engineers at: WWW.SAE.ORG. Forms can be obtained at; <http://www/sae/org/aagg/publications/as9102a-fag.htm>.

30. Amfue! Witnessed First Article Inspection

The supplier is required to notify Amfue! Quality Assurance office five days in advance of scheduled First Article inspection for source witness. The supplier is required to perform 100% inspection and recording of variables (actual) data for the first article manufactured to the configuration specified on this order. If the supplier has delivered acceptable articles of the same configuration to Amfue! within the previous 12 months, this requirement is waived.

31. 100% Inspection

The supplier shall perform and record inspection of all measurable characteristics (attribute data) for each part. This data shall be submitted with each parts shipment. The record must identify each characteristic and the allowable tolerance limits and must show objective evidence that each characteristic has been inspected and accepted for all parts submitted.

32. See Item No. 31 Above.

33. General Inspection

The supplier shall generate and maintain records and data of all inspections and tests performed. Records shall disclose the status of articles and materials and evidence of inspections and tests

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performed including dates. 100% inspection shall be performed on all critical, major and interface control points. Sampling plans for minor attributes shall conform to MIL-STD-105.

34. Statistical Process Control

Suppliers shall validate the quality of the product using SPC techniques as defined in American National Standards Institute (ANSI) Z1.1, Z1.2 and Z1.3 or a system approved by Amfuel. Suppliers shall forward copy of charts, process outline and critical characteristics to Amfuel for approval prior to start of production.

35. Pressure/Hydrostatic

Prior to any pressure /hydro-testing on this purchase order, the supplier shall submit a sketch of test setup and equipment gages to be used. The sketch shall show the general configuration of the item under test with a schematic or the test system in sufficient detail to allow recreation of the test from the sketch. With each shipment, the supplier shall provide a certified report of pressure/hydro-test results.

36. Proof Load

The supplier shall provide a certified report of proof test results, including sketch of test setup, weight, and accuracy of proof load, and results of post-load inspection showing concurrence. The sketch shall show the general configuration of the item under test, the point and method of application of the loads, and sufficient dimensions to allow recreation of the test from the sketch.

37. Acceptance/Verification

The supplier shall comply with the acceptance test requirements of the applicable specification, Statement of Work and/or procurement document.

Submit with each shipment: one certification of compliance and the electrical/functional test data required by the applicable specification, Statement of Work, and/or procurement document, applicable specifications may be manufacturer's test specification, if not applicable specifications are called out on procurement document.

38. Nonconforming Material Control

The supplier shall establish a documented, systematic technique of the identification, documentation, and control of nonconforming hardware that is acceptable to Amfuel. When an article or material produced by the supplier or its sub-tier does not conform to applicable drawings, specification, or other requirements, it shall be identified as Nonconforming, segregated to the extent practicable and held for review action. Identification shall be made immediately after the nonconformance is noted or the hardware is removed, if installed.

38A. Material Review Board

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When Amfuel Material Review Board disposition is required, the supplier shall initiate Amfuel Form MRA-3, "Nonconformance Report". The supplier shall coordinate form entries and submittal instructions with the cognizant Amfuel Buyer.

38B. Corrective Action

The supplier shall take timely and effective action in eliminating the direct and underlying causes or deficiencies reported to him by Amfuel. Corrective Actions shall be transmitted to Amfuel upon request.

- 38B-1. A SCAR shall be initiated when a subcontractor has failed to meet specification requirements to the degree that the product is returned to the subcontractor.
- 38B-2. The Supplier has 15 working days, after receipt of returned goods to respond to the Corrective Action. After 15 days the SCAR will be considered delinquent. A delinquent SCAR will count as a - 0.25% on their Quality rating.
- 38B-3. Suppliers are expected to perform a comprehensive evaluation of the cited nonconformance and provide reasonable response in a timely manner. Root Cause, Corrective Action, and Preventive Action are required.
- 38B-4. Issued corrective actions shall be followed-up to ensure that they are received on the due date. Verifications of implementation shall be verified by receiving inspection, Quality Management or during an audit of the subcontractor.

39. Blank

40. Non-Destructive Test Reports

Submit with each shipment one reproducible record of nondestructive test results. Test reports shall conform to the requirements stated in the applicable test specification. As a minimum, the report shall indicate:

- A. Date tested.
- B. Name of testing organization
- C. Amfuel purchase order number
- D. Drawing number and revision
- E. Specification number and revision
- F. Quantity and serial numbers or lot numbers
- G. Actual Nondestructive Test (NDT) stamp of operator who performed work.
- H. Results of test

40A. Radiographic film Samples

X-rays representing the final condition of the article shall be submitted with each shipment. Film package shall be properly identified with data of exposure, part number, purchase order number and serial number, if applicable.

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41. Special Process Certification

Submit with each shipment one certification of special process to drawing requirements and identification by serial or lot numbers of the hardware processed. Certification shall include objective evidence of compliance with the applicable process and shall have temperature charts and either hardness test results for heat treatment or destructive/nondestructive test results. Organic finishes - Certification of process performed to drawing requirement and identified by serial number or lot number of hardware. Certification must be dated and signed by an official of the corporation.

42. Documentation Maintenance

The supplier shall retain objective evidence of the quality of the item supplied (manufacturing, assembly, inspection, test, and special process records) for seven years after the contract is complete. Amfuel has the right to access any documentation related to product / services supplied to Amfuel.

43. Extended Material Control

Each shipment must have one reproducible record of actual chemical and physical material analysis and a certification of conformance to the applicable material specification(s). The certificate shall contain a list of the applicable specification(s) including revision and identification by heat, lot or melt number. If material is supplied by Amfuel, a copy of accompanying shipper must accompany each parts shipment. Certification must be dated and signed by an official of the corporation. Any record of certification supplied to Amfuel must remain on file by the supplier.

44. Raw Material Verification Sample

Supplier shall furnish all Amfuel requested samples required for verification testing. These samples shall be taken from the same material being supplied to Amfuel and shall be furnished for each unique lot/batch. All supplied test samples shall be identified with the next number of the material lot represented.

45. Material Control

End item traceability to the raw material from which the article(s) was made is required; submit with each shipment one reproducible record of actual chemical and/or physical material analysis and a certification of conformance to the applicable material specification(s). The certificate shall contain a list of the applicable specification(s) including revision letter(s) and identification by heat, lot and melt number. If material is supplied by Amfuel, a copy of the Amfuel shipping document must accompany your return shipment to Amfuel along with a certification that hardware was produced from the material supplied by Amfuel. In either case, all certifications must be dated and signed by an official of your organization.

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45A. Mercury Contamination

Material furnished by the supplier shall not contain functional mercury compounds and shall be free of mercury contamination. Materials furnished should not have come in direct contact with mercury or mercury compounds nor with mercury containing devices/equipment.

46. Manufacturer's Certification

Submit with each shipment one copy of the manufacturer's certificate for the material/equipment supplied stating that the manufacturer has objective evidence of conformance to applicable specifications on file traceable to the material/equipment supplied and available for review upon request. The certificate shall contain as a minimum, a list of the specification(s) and the signature or an authorized representative of the manufacturer.

46A. Military, Federal, or National Specification Conformance

Items supplied under Military, Federal or National specifications shall conform to the specification regarding limits of size, finish, material, component details and performance. The supplier shall coordinate variations or departures from the specification with Amfuel buyer prior to delivery of such items.

46B. Vendor Catalog Conformance

Item(s) supplied under the supplier's catalog number which is not controlled by a Federal or Military specification shall conform to the supplier's catalog description regarding limits of size, finish, material, component details, and performance. The supplier shall coordinate variations or departures from the catalog description with the Amfuel buyer prior to delivery of such items.

46C. Material Conformance

Submit with each shipment a Certificate of Conformance certifying that all materials shipped against this Purchase Order are in conformance with the requirements of the Purchase Order and any specifications that are included.

47. Traceability Requirements

Traceable hardware supplied by Amfuel (i.e., hardware shipped from Amfuel with serial number or lot number identification) must be processed so as to maintain identification. Hardware must be returned to Amfuel with identification of individual units or lots as supplied by Amfuel.

48. Hardware Certification-Distribution

For each item on this purchase order, the supplier shall submit a legible copy of the manufacturer's certification for the hardware supplied. This certification shall:

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- A. State that the hardware supplied was manufactured and acceptance tested in accordance with applicable specifications.
- B. List both the ordering and procurement specifications, including revision levels.
- C. Identify traceability by lot number or date code as applicable.
- D. State that the manufacturer supplying the hardware is on the qualified products list for that hardware. (This applies only when required by the procurement specification noted on the purchase order.)
- E. Be dated and signed by an official of the corporation.

49. Packaging

The supplier's Quality Control organization shall be responsible for ensuring the items of this procurement are packed in such a manner that the dimensional integrity is preserved, contamination and corrosion are prevented, and no physical damage occurs or when specified, that package is in accordance with applicable Packaging, Handling, Storage, and Transportation (PHS&T) requirements and documentation cited in and attached to the order.

49A. Bubble wrap or individual packaging shall be used on all aluminum and porous metal castings, fittings, etc. received by AMFUEL. (ref. packaging spec. PK-93) Any materials not properly packaged will be returned to the vendors at their cost.

50. Identification Requirements

All products supplied to Amfuel shall be individually identified (in addition to the drawing requirements) with a unique lot number that allows the product to be traceable to the raw material used and an identifier traceable to the Supplier as the manufacturer.

51. Part Preservation

Following acceptance and prior to shipment, all metal parts are to be oiled to prevent corrosion. Any inexpensive light weight oil is acceptable.

52. Limited Life/Age Control by Lot or Batch

All items with limited shelf life shall be clearly marked with the manufacturer's name, type of material, shelf life and cure date, date of manufacture, and usability limiting date by lot or batch. A minimum of 85% of shelf life shall be remaining on all items on this order. If items have no shelf-life limitations, vendor shall state so in shipping documents.

53. Metrology Requirements

Submit with each shipment one certification of the accuracy of measurements and weights included. Indicate traceability of measurements to the National Institute of Standards and Technology (NIST).

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54. Calibration Certification w/Data

Submit with each shipment one reproducible certification and record of actual calibration results including applicable graphic and tabular data. Indicate traceability of measurements to the National Institute of Standards and Technology (NIST).

55. Blank

56. Compound Control Specification Compliance

Amfuel Quality Assurance Specification 1985, Revision "B" applies to this Purchase Order.

57. Purchase Order Changes

Original Purchase Order SQAR Clauses apply unless revised in the body of the Purchase Order Change.

58. Supplier shall use approved sources listed in Boeing D1-4426 or sources must be NADCAP Approved

Supplier shall be listed or shall utilize sources listed, in document D1-4426 or NADCAP approved process sources (e.g., Heat Treat, Chemical Processing, Material Testing, Non-Destructive Testing), whenever the manufacturing and inspection type processes listed in D1-4426 or NADCAP are used in the performance of this contract. These documents are available and may be obtained on the following websites: <http://www.boeing.com/companyoffices/doingbiz/d14426/> or <http://www.pri.sae.org>

NOTE: Some vendors, because of the products being purchased, may have a large number of SQARs that have to be listed on the purchase order. For convenience, the Quality Department may issue to those vendors a Supplementary Quality Document containing the applicable requirements that have to be complied with. The document shall be identified with Amfuel's vendor identification number (Example: SQAR No: XXXX) and referenced on the purchase order in lieu of the individual SQARs.

Section IV General Requirements

59. Supplier shall not sell or offer for sale any Amfuel design to anyone other than Amfuel.

60. 680-2 Manufacturing and Inspection Specification for Fitting Rings

Supplier shall comply with all the requirements as defined in Amfuel Specification 680-2.

61. Defense Priorities and Allocations System 15 CFR 350

When addressed on the purchase order, Supplier shall support the DOA1 ratings on all applicable purchase orders. All DOA1 ratings shall be identified with the following statement: "This is a rated



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order certified for national defense use and you are required to follow all provisions of the Defense Priorities and Allocations System Regulation (15 CFR 350).”

62. Concession / Deviation Request

Supplier shall reference any approved Concession / Deviation numbers on submitted certifications and First Article Reports.

63. Suppliers Part Protection Guide Helicopters Division

European Union requirements for wood packaging materials (lumber). The container must be stamped on two opposing sides with the USDA approved “no bugs” stamp.

NOTE: Information about the European Union requirements above may be found at the following web site: www.aphis.usda.gov/ppq/swp/eunmwp.html

64. Flowdown to Sub-tier Suppliers

Supplier shall be responsible to flow down to sub-tier suppliers the applicable requirements in the purchasing documents, including key characteristics where required.

65. PREFERENCE FOR DOMESTIC SPECIALTY METALS

Reference DFARS: 252.225-7014

(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
 - 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-based alloys.

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

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

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- (D) If any article delivered under this order is comprised of or incorporates specialty metals, the contract clause in Federal Acquisition Regulation 52.247-64 (Preference for Privately Owned U.S.-Flag Commercial Vessels) applies and is incorporated herein by reference.
- (E) A Domestic Non-Availability Determination (DNAD) may apply to Articles furnished under this order. Supplier must provide sufficient information to establish DNAD applicability. In the event that the Buyer or the US Government determines that a DNAD does not apply, Supplier must furnish compliant Articles.
- (F) The Contractor shall insert the substance of this clause, including this paragraph (F), in all subcontracts for items containing specialty metals.

66. Foreign Object Debris/Damage (FOD) Prevention

- (A) Suppliers shall maintain a FOD prevention program in accordance with National Aerospace Standard NAS-412, Foreign Object Damage/Foreign Object Debris (FOD) Prevention
- (B) Whenever and /or wherever FOD entrapment or foreign objects can migrate, Supplier shall ensure that SQAR66 requirements are flowed down to Supplier subcontractors at every tier.
- (C) Prior to closing inaccessible or obscured areas and compartments during assembly, Suppliers shall inspect for foreign objects/materials and ensure no FOD barriers remain embedded, e.g., embedded protective plugs. Supplier shall ensure tooling, jigs, fixtures, and test or handling equipment are maintained in a state of cleanliness and repair sufficient to prevent FOD.
- (D) Supplier may use SQAR66 requirements to meet any other PO with prior versions of SQAR FOD requirements imposed between Buyer, and acting for and through American Fuel Cell and Coated Fabrics (Amfuel), and Supplier, provided that Supplier does so at no increase in price, cost or fee of this PO.

67. Counterfeit Parts Prevention:

- (A) For purposes of this clause, Work consists of those parts delivered under this Contract that are the lowest level of separately identifiable items (e.g., articles, components, goods, and assemblies). "Counterfeit Work" means Work that is or contains items misrepresented as having been designed and/or produced under an approved system or other acceptable method. The term also includes approved Work that has reached a design life limit or has been damaged beyond repair but is altered and misrepresented as acceptable.
- (B) Supplier agrees and shall ensure that Counterfeit Work is not delivered to AMFUEL.
- (C) Supplier shall only purchase products to be delivered or incorporated as Work to AMFUEL directly from the Original Component Manufacturer (OCM)/Original Equipment Manufacturer (OEM), or through an OCM/OEM authorized distributor chain. Work shall not be acquired from independent distributors or brokers unless approved in advance in writing by AMFUEL.
- (D) Supplier shall immediately notify AMFUEL with the pertinent facts if Supplier becomes aware or suspects that it has furnished Counterfeit Work. When requested by AMFUEL, SUPPLIER shall provide OCM/OEM documentation that authenticates traceability of the affected items to the applicable OCM/OEM.
- (E) Supplier shall include paragraphs (a) through (d) of this clause or equivalent provisions in lower tier subcontracts for the delivery of items that will be included in or furnished as Work to AMFUEL. Supplier shall establish and maintain a Counterfeit Parts Prevention and Control Plan



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using Industry Standard AS-5553 as a guideline. The purpose of this document shall be to prevent the Government-Industry Data Exchange Program ("GIDEP") shall utilize the GIDEP process to alert the industry of encountered counterfeit parts.

68. Records

- (A) Supplier shall maintain complete records of all manufacturing, process capability (if applicable), inspection and test, including copy of CoC. Supplier shall make records available to AMFUEL upon request, for at least three (3) years after completion of this PO and for longer periods as may be specified elsewhere in this PO. Upon request, Supplier shall forward specific records to AMFUEL at no additional cost, price, or fee to AMFUEL. For at least ten (10) years after completion of this PO, Supplier shall maintain and provide to AMFUEL upon request, records of all process control tests performed by Supplier, and inspection records of processed items.
- (B) Supplier shall maintain special processing activity data on each AMFUEL-approved process performed for AMFUEL, including processes performed by Supplier on AMFUEL items, or any special process source utilized, and Supplier shall compile a quarterly Usage Report of this activity data and submit it to AMFUEL. Supplier shall also include in this Usage Report all special processing activity accomplished which may have been subcontracted by Supplier's sub-tier manufacturing sources. Supplier Usage Report shall consist of processing activity accomplished in the following activity categories:
 - (1) Supplier subcontracting special processing activity to approved sources.
 - (2) Supplier subcontracting source name.
 - (3) AMFUEL'S assigned special process name.
 - (4) Process specification used by specification number, and

69. Notification of Escape

Supplier shall notify and provide full disclosure of any known or potential quality escape.