C16.23 FUEL, NAVAL DISTILLATE (F-76) (DLA ENERGY AUGUST 2022)

NATIONAL STOCK NUMBER	PRODUCT NOMENCLATURE	DLA ENERGY PRODUCT CODE
9140-00-273-2377	Fuel, Naval Distillate	F76

For supplies delivered under this contract, the Contractor shall conform to all International, Federal, State, and local environmental requirements applicable to the geographic location of the receiving activity on the date of delivery. The Contractor shall also comply with all applicable International Agreements, Treaties, Conventions, and the like to which the United States is a signatory or with whose terms the receiving activity has otherwise agreed to comply, including but not limited to, the requirements of MARPOL 73/78 Annex VI Regulations 14 and 18. The Contractor shall be responsible for determining the existence of all such requirements prior to the time deliveries are made. This includes delivery of fuel and documentation in a manner consistent with any existing or after-imposed Title V (Clean Air Act) Permits. The list of such requirements contained in this contract is not intended to be a complete list, and the Contractor shall be responsible for determining the existence of all such requirements. In the event that an International, Federal, State, and/or local environmental requirement, as identified above, is more stringent than a requirement contained in this contract, the Contractor shall deliver product(s) that complies with the more stringent requirement. Product(s) that fails to meet the more stringent requirement will be considered nonconforming supply. Product(s) to be supplied shall fully meet the requirements of the applicable specification(s). In the event that compliance with the more stringent requirement causes the contractor to incur additional costs, the contractor may request an equitable adjustment.

Unless otherwise indicated by the Contractor in writing, prior to award, the product offered shall be required to fully meet all applicable specifications. The supplier shall provide to the receiving vessel a "Statutory Sample" of at least 400 mL in volume, taken from the receiving vessel's inlet bunker manifold, together with a Bunker Delivery Note (BDN). This sample will be sealed and carry a sample tag that provides the documentation required per MARPOL 73/78, Annex VI Regulation 18.

a) Naval Distillate Fuel (F-76) shall conform to the requirements of Military specification MIL-DTL-16884P dated 26 Sept 2017. Nomenclature for Naval Distillate Fuel (F-76) is shown above.

b) **SPECIFICATION MODIFICATIONS**:
   1) Flash Point: All batches of F-76 that are presented for Government acceptance at origin shall meet a minimum flash point requirement of 62.5 degrees Celsius (°C).
   2) F-76 offered from a location other than where refined (excludes synthesized material as defined in section 3.2.2 and 3.2.3 of MIL-DTL-16884P) requires testing for FAME content by test method ASTM D7963, BS EN 14078, or IP 579. ASTM D7963 is considered to be the referee test method.
   3) In Australia, all deliveries of F-76 shall have a minimum Flash Point of 62.5°C at the custody transfer point.
   4) Ash, mass%: All batches of F-76 shall not exceed 0.010% Ash by ASTM D482.

c) **MATERIALS:** The F-76 supplied under this contract shall not contain un-hydrotreated light cycle oils or contain any stabilizer additives, or any other additive or material not explicitly allowed per section 3.2 of MIL-DTL-16884P.

   For F-76 containing a synthetic component, the synthetic component shall be certified to Tables A-I and A-II of MIL-DTL-16884P; for synthesized iso-paraffins, the synthetic component shall be certified to Tables B-I and B-II of MIL-DTL-16884P. It is not necessary to analyze each batch of the synthetic component for compliance with Table A-II (or Table B-II, as applicable) once it is demonstrated that the process scheme is adequately controlled and if no significant changes to existing production operations have been made, such as a turnaround event on a refinery unit used to produce the synthetic component or a change in feedstock material. The signed F-76 synthetic component certification page shall be supplied for each shipment which includes synthetic paraffinic materials attesting that no changes to the production process have been made and certifying that the last certificate of analysis, dated and including Table A-II (or Table B-II, as applicable) results, is still valid.

d) **ADDITIVES**:
   1) Lubricity Improver Additive (LIA) – Lubricity additives are allowed in F-76. The LIA additive(s) used shall conform to MIL-PRF-32490A, Performance Specification, Additive, Lubricity Improver, Distillate Fuel, dated 24 May 2019 and found in ASSIST and shall

be listed in the electronic Qualified Products List (QPL)-32490, located in the Qualified Products Database (QPD) found at https://assist.dla.mil/ (or http://quicksearch.dla.mil) . Instructions on how to use ASSIST are located in QAP C1.02. Either Grade A. Grade B, or Grade C material is suitable for treatment of de-sulfurized F-76. Additive concentration shall not exceed the maximum allowable concentration applicable to the specific additive selected for inclusion in finished F-76.

2) Information pertaining to qualification of additives not currently listed on QPL-32490 may be obtained from Commander, Naval Sea Systems Command, ATTN: SEA 05S, 1333 Isaac Hull Avenue, SE, Stop 5160, Washington Navy Yard, DC 20376-5160, USA, or by e-mailing CommandStandards@navy.mil.

3) Dyes and Markers - Red dye required in off-highway diesel fuel in accordance with 40 CFR Part 80 as modified by the Environmental Protection Agency's interim final rule published in the Federal Register dated July 14, 1994 shall not be added to F-76. The finished product shall show no visual evidence of red dye. This F-76 product is for military, off-highway use only and must be segregated at all times from any diesel fuel used on-highway. NOTE: Red dye does not apply to Atlantic/Europe/Mediterranean or Western Pacific Overseas Bulk purchase programs unless offering refinery is located in the United States or one of its possessions.

e) **BATCH SAMPLING**: The Contractor shall provide one 20 mL sample per each individual tank in a procurement batch.

For *each* 20 mL sample provided by the Contractor, the Contractor shall also submit a Refinery Certificate of Quality (RCQ), or Certificate of Analysis (CoA), as applicable, with the F-76 sample when submitting to the US Naval Research Laboratory. The RCQ or CoA for each individual tank shall be representative of Level A testing for the F-76 product.

NOTE: This sample is in addition to those required in accordance with Quality Assurance Provision (QAP) E1

QUANTITY OF SAMPLE	WHEN SAMPLED	SUBMISSION PERIOD
20 mL	Upon completion of each individual procurement batch	Shipped within 30 days of delivery of procurement batch
"Batch" Definition in accordance with MIL-STD-3004-1A, 3.1.9: A specific quantity of product that is processed or utilized as a single unit and tested to meet test criteria and specifications.		

The sample from each tank/batch shall be either an all-level sample or a composite of upper, middle, and lower samples. **A copy of the full-specification test report shall accompany each sample**. The sample container will be any 20 mL amber borosilicate vial with a polytetrafluoroethylene (PTFE) lined screw cap. A tracking number for the samples shall be provided to: Thomas Loegel at Thomas.loegel@nrl.navy.mil or (202) 404-1157. Samples shall be shipped to:

US Naval Research Laboratory
ATTN: Thomas Loegel, Code 6181
F76 Component Analysis Forensic Project
4555 Overlook Ave., S.W.
Washington D.C. 20375-5320

The paperwork provided with these samples shall include the following information:

Contract Number
Contractor's Name
Product
Refinery Location
Quantity of Tank/Batch
Full-Specification Test Report

For samples containing synthetic components, include the following additional information:

Manufacturer of synthetic component
Batch Number
Date of Test Report
Quantity of Tank/Batch
Percent Composition
Production Process of Synthetic Component Feedstock
Full-Specification Test Report

f) TRACEABILITY:

1) F-76 fuel supplied under this contract shall maintain traceability with respect to additives and materials, which is defined as the ability to trace the individual batch of fuel back to the original point of manufacture through documentation.
2) All traceability documentation shall be sufficient to guarantee that at no point have any unauthorized materials or additives been blended into the final product or any of its associated blend components per section 3.2 Material of MIL-DTL-16884P.
3) For all F-76 supplied, the traceability documentation shall consist of statement(s) attesting to the materials composition, which includes materials derived from non-petroleum sources, additives and their concentration levels. Additives and concentrations to be reported include LIAs outlined in section d.1 above and any trace additives resulting from existing tank heels, product trail-back in a multiproduct system, all product blending operations, etc.
4) If F-76 is produced by means of blending, the traceability requirement and documentation for additives and materials shall apply to each blending component used from the point of manufacture through the blend operation. Materials composition, additives and their concentration levels shall be included. The requirement and intent of traceability for blend components is not to obtain full certificates of analysis of each individual blend component, but for certification that no unapproved additives or materials are present in blend components used.
5) The form titled: "F-76 Traceability Signature Page" (attached below) shall be used to document conformance with the provisions of this traceability paragraph. The offeror/supplier shall comply with this requirement utilizing one of the three options below and notification shall be provided to both the contracting office and QT@dla.mil during the pre-award phase which option was chosen for compliance. Documents provided in conjunction with individual shipments shall be uploaded into Wide Area Work Flow as attachments under the quality tab.

   i) OPTION 1 – As part of the offeror submission package the offeror shall provide the traceability signature page from each entity in the supply chain providing and/or handling F-76 product and/or blending components all the way back to the point of manufacture. For each individual shipment, the supplier will submit a traceability page signed only by the awardee.
   ii) OPTION 2 – As part of the offer submission package the offeror shall provide the traceability signature page, signed only by the offeror. Upon award and prior to the first shipment the awardee shall provide the signed traceability signature page from each entity in the supply chain providing and/or handling F-76 product and/or blending components all the way back to the point of manufacture. For each individual shipment, the supplier will submit a traceability page signed only by the awardee.
   iii) OPTION 3 – As part of the offeror submission package, the offeror shall provide the traceability signature page, signed only by the offeror. For each individual shipment, the awardee shall provide the signed traceability signature page from each entity in the supply chain providing and/or handling F-76 product and/or blending components all the way back to the point of manufacture.

Regardless of the option chosen, the traceability sheet signed by offeror shall be submitted to both the contracting office and to QT@dla.mil during pre-award phase.
For OPTION 1 or OPTION 2, the purpose of the awardee submitting a signed traceability page with each shipment is to confirm that the initial traceability certification is still valid at the time of F-76 product shipment.

6) If at any point during the contract period the traceability information provided under OPTION 1 or OPTION 2 becomes invalid (i.e. the supply chain is altered or the source of F-76 product or a blending component changes), the supplier shall notify both the contracting office and QT@dla.mil and updated documentation shall be provided.

	Signature
Prepared by:	GRIECO.DAVID.FRANK.1385613233 Digitally signed by GRIECO.DAVID.FRANK.1385613233 Date: 2022.08.10 12:41:46 -04'00'
Quality / Technical Directorate Approval:	BANISZEWSKI.DANIEL.J.1287388698 Digitally signed by BANISZEWSKI.DANIEL.J.1287388698 Date: 2022.08.11 12:32:31 -04'00'
Contracting Approval:	RALPH.ERIN.S.1229663042 Digitally signed by RALPH.ERIN.S.1229663042 Date: 2022.08.17 15:47:37 -04'00'

F-76 Traceability Signature Page

Contract or Solicitation Number:	
CLIN:	
Order Number:	
Shipment Number:	

Traceability OPTION selected per paragraph e.5 (circle or otherwise indicate which one of the three options is chosen):

OPTION 1 OPTION 2 OPTION 3

F-76 fuel supplied under the above contract, CLIN, order number and shipment number maintains traceability with respect the materials composition, additives and their concentration levels. This signed statement certifies that at no point have any unauthorized un- hydrotreated light cycle oils, other unauthorized materials, or additives been blended into the final product or any of its associated blend components per the most recent revision of MIL-DTL-16884 at date of contract award. All materials and additives are listed below. The percentage of each material as defined in sections 3.2, 3.2.2, and 3.2.3 (i.e. refined hydrocarbon distillate fuel, Fischer-Tropsch, Hydroprocessed Renewable Diesel, etc.) and the concentration level for each additive are also shown. For the purposes of the offeror submission this signed statement attests that no unapproved additives or materials will be added to batches or components of batches of F-76 for delivery under government contracts.

Signature:	
Printed Name:	
Title:	
Company Name:	
Date:	

Material	Percent

Additive	Concentration	Responsible Party for Injection

F-76 Synthetic Component Certification

Contract or Solicitation Number:	
CLIN:	
Order Number:	
Shipment Number:	

Synthetic paraffinic materials supplied as indicated with the above contract, CLIN, order number, and shipment number is derived from either Fischer-Tropsch (FT) or Hydroprocessed Renewable Diesel (HRD) methods. This signed statement certifies that since the last certificate of analysis (COA), including table A-II or B-II results of MIL-DTL-16884P, Appendix A or B, no changes, including feedstock material, production location, or production processes have been made. In addition, no turnaround events have been executed on any units utilized to produce the synthetic paraffinic materials since the last COA, including table A-II or B-II, properties were tested. Please supply the date of the most recent COA and an identifying number for that report in the space provided below.

DATE OF COA:_____

LAB REPORT ID NUMBER_____

Signature:	
Printed Name:	
Title:	
Company Name:	
Date:	