



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
P.O. BOX 3990
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DLA LAND AND MARITIME-VAI

May 19, 2017

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of MIL-DTL-16878 Engineering Practice Study
(see table below for details).

The initial draft for the MIL-DTL-16878 Engineering Practice Study is now available for viewing and downloading from the DLA Land and Maritime-VA Web site:

<https://landandmaritimeapps.dla.mil/Programs/MilSpec/DocSearch.aspx>

Initial Draft	Title	Project Number
MIL-DTL-16878H(1) EP Study	Wire, Electrical, Insulated, General Specification for	6145-2017-030

The purpose of this EPS is to determine if the testing requirements of MIL-DTL-16878H(1) can be reduced to simplify acquisition without the compromising the reliability and durability of wire required by the end-user.

Comments are required at this Center within 30 days. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply.

If this document is of interest to you, please provide your comments or suggested changes. The point of contact for this document is Mr. Bender, phone number 614-692-9185, facsimile transmission, 614-692-6939, e-mail Jacob.Bender@dla.mil or may be mailed via the US Postal Service to DLA LAND AND MARITIME, ATTN: VAI (Attention: Jacob Bender), P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/ **SIGNED** /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Branch

CC: David Devine, Stephen Foster

ENGINEERING PRACTICE STUDY (EPS)

MIL-DTL-16878H
w/ AMENDMENT 1

Wire, Electrical, Insulated, General Specification for

PROJECT NUMBER: 6145-2017-030

5 MAY 2017

Prepared by: Jacob Bender
Project officer (Wire & Cable)
DLA Land and Maritime-VAI

ENGINEERING PRACTICE STUDY
MIL-DTL-16878H(1)

Objective: The purpose of this EPS is to determine if the testing requirements of MIL-DTL-16878H(1) can be reduced to simplify acquisition without compromising the reliability and durability of wire required by the end-user.

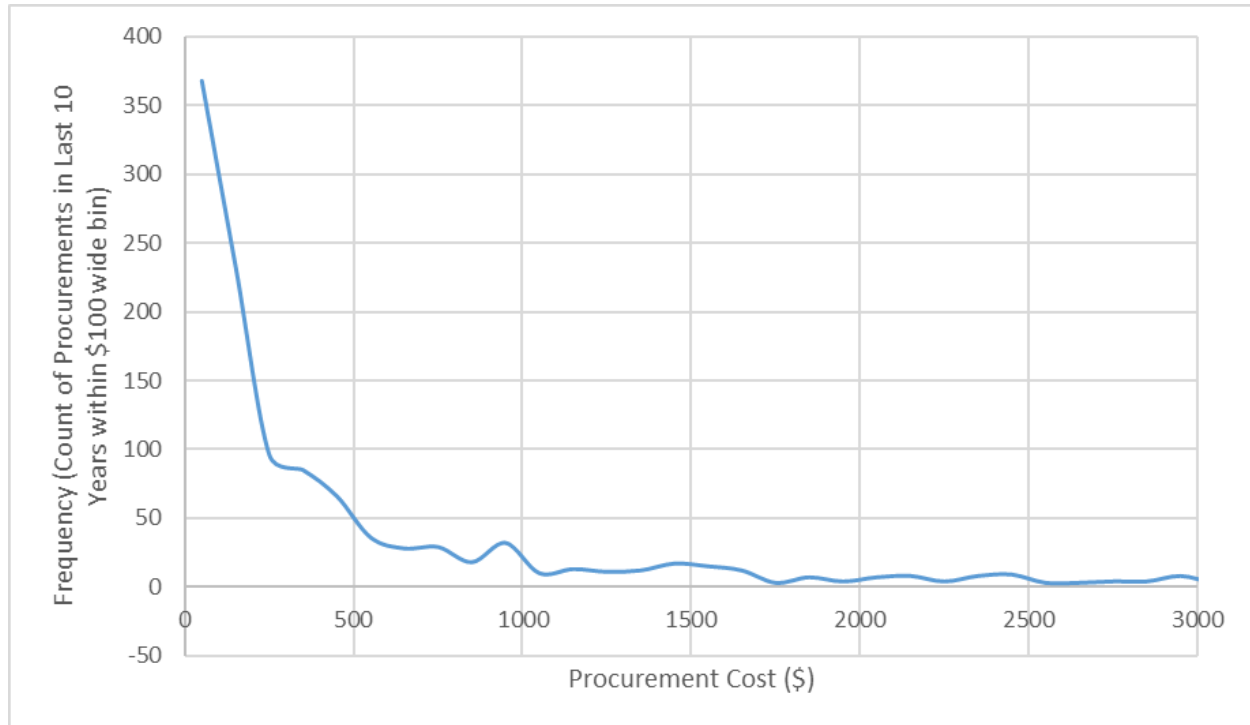
Background:

MIL-DTL-16878 requires first article testing (FAT). MIL-DTL-16878 basic specification and specification sheets have been transitioned from the government to the non-government standards (NGS) organization National Electrical Manufacturers Association (NEMA) as part of acquisition reform. The documents transferred to NEMA with identical or nearly identical requirements and wording, but don't have FAT. MIL-DTL-16878 documents were inactivated to support replacement demands but transitioned new wire needs to the NEMA HP 3 thru NEMA HP 9 documents. The inactivation on the government side was completed with the inactivation of the basic MIL-DTL-16878 document on 12 January 2016.

Procurement for 16878 wire was determined. Average yearly procurement for 16878 wire is \$93,294.17 through an average of 128 procurements meaning the average procurement is \$728.86.

DocumentName	Most Recent Procurement	Procurement Cost 10yr	Procurement Count 10yr	Procurement Cost Lifetime	Procurement Count Lifetime
MIL-DTL-16878	20-Oct-14	\$ 5,385.81	16	\$ 102,010.46	80
MIL-DTL-16878/1	23-Feb-17	\$ 53,209.28	213	\$ 6,311,855.02	1894
MIL-DTL-16878/10	13-Aug-14	\$ 946.00	4	\$ 17,803.50	32
MIL-DTL-16878/14	28-Dec-16	\$ 24,233.28	89	\$ 1,069,186.27	327
MIL-DTL-16878/15	30-Jan-17	\$ 27,865.85	77	\$ 44,299.73	160
MIL-DTL-16878/16	17-Feb-17	\$ 371,678.65	263	\$ 1,025,562.64	576
MIL-DTL-16878/17	18-Nov-16	\$ 33,105.11	120	\$ 2,990,744.87	971
MIL-DTL-16878/18	12-Sep-16	\$ 9,854.22	40	\$ 216,163.57	280
MIL-DTL-16878/19	04-May-16	\$ 28,144.07	39	\$ 355,397.67	349
MIL-DTL-16878/2	29-Aug-16	\$ 89,290.83	193	\$ 3,759,763.79	1268
MIL-DTL-16878/3	09-Aug-16	\$ 267,208.67	190	\$ 1,687,909.95	1166
MIL-DTL-16878/33	09-Aug-16	\$ 14,817.30	18	\$ 45,259.39	86
MIL-DTL-16878/36	02-Mar-17	\$ 7,202.67	19	\$ 8,564.27	25
Total		\$ 932,941.74	1281	\$ 17,634,521.13	7214
Yearly Average		\$ 93,294.17	128		

The largest procurement in the past 10 years was \$24,475. Looking the procurement cost verses frequency in the chart below, a large number procurements are below the average cost with some above the average cost. The high dollar procurements pull the average procurement cost higher than if the distribution was more even.



Proposal:

Methodology: Obtain input from manufactures/military/industry to determine if the FAT testing in the document can be reduced while maintaining final product quality at an acceptable level. Based on the results, the testing requirements will remain the same or will be reduced to simplify the procurement process.

If there are any questions, please contact Mr. Jacob Bender, phone DSN 850-9185/commercial 614-692-9185, E-mail Jacob.Bender@dla.mil, DLA Land and Maritime-VAI, P.O. Box 3990, Columbus, OH 43218-3990.