



DEFENSE LOGISTICS AGENCY

DLA Land and Maritime
POST OFFICE BOX 3990
COLUMBUS, OH 43218-3990

22 November 2022

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Engineering Practice Study concerning footnote 1 of TABLE VI in MIL-PRF-6106P w/AMENDMENT 1 and it's applicability to test subgroup Q1.

Objective

This engineering practice study is being conducted to determine the acceptability of removing footnote 1. All relays not fully rated at 25 Amps would be subjected to Q1 tests in TABLE VI in MIL-PRF-6106P w/AMENDMENT 1 instead of relays listed in footnote 1 under the same table.

Background

Footnote 1 states the following: "Applicable to MIL-PRF-6106/12, MIL-PRF-6106/13, MIL-PRF-6106/19, MIL-PRF-6106/20, MIL-PRF-6106/38, MIL-PRF-6106/39, MIL-PRF-6106/40, and MS27742."

At this time, it can be interpreted that only certain relays not fully rated at 25 amperes or higher are applicable to visual and mechanical inspection, and other tests listed in subgroup Q1. However, the tests listed in that table are performed during Group A inspection.

Group A inspection is a required set of tests for types of relays that have undergone tests listed in Q1.

Question needing answers are:

1. Would there be any consequences from the removal of footnote 1's applicability to test subgroup Q1?

Request for Comments

Please comment on the above question.

Concurrence or comments are required at the Center no later than December 22, 2022. Comments from military department must be identified as either "Essential" or "Suggested." Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians or this office, as applicable, in sufficient time to allow for considering the department reply.

Please forward your comments or concurrence electronically to the project engineer listed below. This can be done in the form of a return e-mail, with or without an attached text file. If an electronic response is not possible, we will accept comments via letter, facsimile, or phone call but only after you have contacted the project officer. Any further coordination concerning this document will be circulated only to firms and organizations that furnish comments or reply that they have an interest.

The point of contact for this document is Mr. Joe Galbraith, DLA Land and Maritime, VAT. The preferred method of contact is e-mail: joseph.galbraith@dla.mil. Mr. Galbraith can also be reached by phone at 614-692-9821/DSN 692-9821.

RADECKI.MICHAEL
L.A.1230152051
Digitally signed by
RADECKI.MICHAEL.A.123015205
1
Date: 2022.11.22 08:20:16
-05'00'

MICHAEL A. RADECKI
Chief
Electronic Components Branch

Current Test Subgroup Q1 in TABLE VI: Qualification inspection (for relays not fully rated at 25 amperes), and footnotes 1, 2, and 3

Inspection	Requirement paragraph	Test method paragraph	Number of sample units to be inspected	Number of failures allowed
<u>Q1</u> <u>1/</u>				
Visual and mechanical inspection (internal) <u>2/</u>	3.1 and 3.37	4.7.1	All sample units	0
Run-in screening (when specified)	3.7	4.7.2		
Internal moisture	3.33	4.7.27		
Solderability (3 sample units) <u>3/</u>	3.8	4.7.3		
Dielectric withstanding voltage	3.12	4.7.7		
Insulation resistance	3.11	4.7.6		
Electrical characteristics	3.13	4.7.8		
Visual and mechanical inspection (external) (dimensional check on 2 sample units only)	3.1, 3.34, 3.35, 3.37	4.7.1		
Seal	3.10	4.7.5		

1/ Applicable to MIL-PRF-6106/12, MIL-PRF-6106/13, MIL-PRF-6106/19, MIL-PRF-6106/20, MIL-PRF-6106/38, MIL-PRF-6106/39, MIL-PRF-6106/40, and MS27742.

2/ One sample unit remaining unsealed shall be subjected to the internal inspection.

3/ Solderability samples are not subjected to dielectric withstanding voltage, insulation resistance, electrical characteristics, and seal.

Proposed Test Subgroup Q1 in TABLE VI: Qualification inspection (for relays not fully rated at 25 amperes), and footnotes 1, and 2

Inspection	Requirement paragraph	Test method paragraph	Number of sample units to be inspected	Number of failures allowed
<u>Q1</u>				
Visual and mechanical inspection (internal) <u>1/</u>	3.1 and 3.37	4.7.1	All sample units	0
Run-in screening (when specified)	3.7	4.7.2		
Internal moisture	3.33	4.7.27		
Solderability (3 sample units) <u>2/</u>	3.8	4.7.3		
Dielectric withstanding voltage	3.12	4.7.7		
Insulation resistance	3.11	4.7.6		
Electrical characteristics	3.13	4.7.8		
Visual and mechanical inspection (external) (dimensional check on 2 sample units only)	3.1, 3.34, 3.35, 3.37	4.7.1		
Seal	3.10	4.7.5		

1/ One sample unit remaining unsealed shall be subjected to the internal inspection.

2/ Solderability samples are not subjected to dielectric withstanding voltage, insulation resistance, electrical characteristics, and seal.