

ENGINEERING PRACTICE STUDY

TITLE: MIL-PRF-6106/19, MIL-PRF-83536/1, /2, /5, /6, /9, /10, /11, /12, /13, /15, /16, /17, 18, /19, /21 /22, /25, /26, /32, /33, /34, /35, /37, MIL-PRF-83726/28, /29, /30, /31, /35, /36 CHANGING MEASUREMENT OF SAE-AMS-3332 SILICONE GASKET MATERIAL THICKNESS FROM .050" $\pm$.005" TO .050" $\pm$.010".

28 March 2019

STUDY PROJECT

FINAL REPORT

Study Conducted by DLA Land and Maritime

Project Number: 5945-2019-006

Prepared by:

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ATTACH 1

I. OBJECTIVES: This engineering practice study is being conducted to determine the acceptability of changing SAE-AMS-3332 silicone gasket material thickness FROM .050" $\pm$.005" TO .050" $\pm$.010". DLA received notification from a QPL-6106, 83536, 83726 manufacturer of their inability to procure gasket material measuring .050" $\pm$.005". Per the manufacturer, the only procurement option is .050" $\pm$.010" thickness. The option supports RMA Class 1 Standard $\pm$.010" tolerance for material up to and including 0.06".

II. BACKGROUND: At this time, the Specifications require a gasket material thickness of .050" $\pm$.005".

Questions needing answers are:

Are QPL manufacturers able to procure SAE-AMS-3332 silicone gasket material with a thickness of .050" $\pm$.005"?

How does changing the gasket thickness FROM .050" $\pm$.005" TO .050" $\pm$.010" impact the relay's fit or function?

III. RESULTS: The documents were reviewed and a DoD position determined on each. A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response concurred with the proposal to change the gasket material thickness to .050" $\pm$.010"

IV. CONCLUSIONS: It was determine that DLA Land and Maritime could adopt the proposal to change the gasket material thickness to .050" $\pm$.010"

V. RECOMMENDATIONS: The following documents have concurrence for gasket material thickness .050" $\pm$.010":

MIL-PRF-6106/19, MIL-PRF-83536/1, /2, /5, /6, /9, /10, /11, /12, /13, /15, /16, /17, 18, /19, /21 /22, /25, /26, /32, /33, /34, /35, /37, MIL-PRF-83726//28, /29, /30, /31, /35, /36