



DEFENSE LOGISTICS AGENCY

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IN REPLY
REFER TO

DLA LAND AND MARITIME-VAI

4 March 2011

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Dated Engineering Practices Study to

The Findings and recommendations on Engineering Practices Study, dated 14 February 2011 are enclosed.

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Document Number	Action Taken	Complete Title	Project Number
One Step Connector EP STUDY	EPS	RF One Step BNC/TNC Connector Study	5935-2010-202

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Sincerely,

/ **SIGNED** /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Devices Team

cc:
DLA – VQ
DLA - VE
Navy



ENGINEERING PRACTICE STUDY

TITLE:
RF One-Step BNC/TNC Connector
Study

14 February 2011
PROJECT NUMBER:
5935-2010-202

DOCUMENT ID:
OneStep_EPSTUDY

FINAL REPORT

Study Conducted and
Prepared by

Ami Chase

I. OBJECTIVE: The objective of this study is to determine if there is sufficient interest in the RF One Step BNC/TNC connectors to merit development of a DSCC drawing and possibly incorporating them into the military specification family MIL-PRF-39012 at a later date.

II. BACKGROUND: DLA Land & Maritime was approached by one of our military customers about incorporating a new TNC/BNC design into a DSCC drawing or military standard. The hope is to add an option that will decrease maintenance time and failures in the field.

The military customer has investigated the demand and need from field and operational units. One of the biggest issues mentioned, concerning existing aircraft connectors, is frequent replacements due to failures. This proposed design has a dye in it that changes colors when it is melted, thus allowing the user to know that it's a good seal.

Field feedback indicated that the lengthiest repairs performed were on, or with, RF connectors of various weapons systems. Also mentioned was the need for expedited, simpler installation and a more rugged RF connector system.

These military units are most representative of overall demand, with deployment requirements in various environments; air, sea, and land. After considerable field research, the military customer suggests the RF One-Step connector design meets requirements (see attached photos).

It should be understood that this connector would be an alternate design not a replacement design. The first step is to create a DSCC drawing. Later, if this design is incorporated into the family of MIL-PRF-39012 documents, it would become a new specification sheet. The new design would not replace the exiting designs for connectors. Standardized BNC and TNC connectors are covered in the MIL-PRF-39012 family of documents. The connector interfaces are covered in MIL-STD-348.

III. RESULTS: After comparing gathered information, comments, and reviews, it has been determined that this is a viable option for development of a DSCC drawing and possibly a Military specification sheet. Feedback from both military and industry indicates that this type of configuration would be considered for new designs and possibly used to replace some older designs.

IV. CONCLUSIONS: The One Step RF connector , TNC design, is a viable option for inclusion in a DSCC drawing and possibly in the MIL-PRF-39012 document family.

V. RECOMMENDATION: Recommendations of the study are as follows: NAVAIR Navy group will work with DLA Land & Maritime Operations Support contacts (DLA-VA, DLA-VE, DLA-VQ) to develop a DSCC drawing(s) that incorporates the One Step RF TNC connector design, and develop the needed testing and performance requirements.