

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
MARINE OPERATIONS CENTER
STANDARD SPECIFICATION MOC-300-3

GENERAL REQUIREMENTS FOR ELECTRICAL/ELECTRONIC ITEMS

1. SCOPE. This specification provides general requirements for work performed on electrical and electronic systems.

2. REFERENCES.

2.1 IEEE STD 45-1988, Recommended Practice for Electric Installations on Shipboard (series)

2.2 U. S. Coast Guard 46 CFR 110 through 113, "Subchapter J - Electrical Engineering"

3. REQUIREMENTS.

3.1 The contractor shall accomplish all work in these specifications in accordance with the requirements of References 2.1 and 2.2, and using the best marine and shipbuilding practices.

3.2 The quality of all materials provided by the contractor shall be in accordance with References 2.1 and 2.2, suitable for marine service, and have the same shape, color, and finish as the existing or damaged materials when they were new.

3.3 All new cabling shall be low smoke and sized for the cable's intended use.

3.4 All machinery, piping, cabling, ducts, insulation, paint work, deck tile, or any other article removed, disturbed, or damaged in the process of accomplishing the work required by these specifications shall be replaced, renewed, or repaired. All paneling removed shall be replaced, including any required alterations. Paneling damaged by the contractor shall be renewed equal to the original when new. All flanges and joints broken or loosened shall be properly remade using new gaskets of the proper size and material.

3.5 All electronic racks installed shall be securely fastened to overhead and deck structural or steel members to prevent movement.

3.6 Any disturbed painted or varnished surfaces shall be cleaned, painted, and/or varnished with original type and color of paint or varnish.

3.7 Any extension of electrical cabling shall be through a junction box. Any removal of electrical cabling shall be to the nearest junction box.

3.8 All electrical junction boxes, receptacles, hangers, and miscellaneous electrical fittings shall be in accordance with References 2.1 and 2.2.

3.9 All electrical cabling installed by the contractor shall be run behind paneling in existing cableways and shall be securely banded to the hangers. If existing cableways are not available, new cableways shall be established.

3.10 All electrical cabling installed by the contractor shall be identified at each end with embossed metal tags. Where cables are marked within a junction or terminal box, nonconductive labels shall be used. The contractor shall number cabling with a marking system similar to that used on the ship.

3.11 All manufacturer's or supplier's standard warranties on equipment installed on the ship shall be assigned in writing by the contractor to the Government.

3.12 Three copies all manufacturer's technical manuals, prints, and drawings shall be delivered to the COTR. Spare parts and surplus installation materials shall be delivered to the COTR.

4. QUALITY ASSURANCE.

4.1 All items disturbed and all devices used, repaired, altered, furnished, or installed by the contractor shall be demonstrated to be fully operational upon completion of work.

END OF SPECIFICATION