

the system unless the test would damage equipment or endanger personnel. In the latter case, the use of a synthesized signal or condition applied to the sensor is acceptable if test equipment is maintained in good working order and is periodically calibrated to the satisfaction of the Officer in Charge, Marine Inspection. Other test techniques must be approved by the Commandant (G-MSE).

[CGD 80-064, 49 FR 32193, Aug. 13, 1984, as amended by CGD 95-072, 60 FR 50463, Sept. 29, 1995; CGD 96-041, 61 FR 50728, Sept. 27, 1996]

PART 62—VITAL SYSTEM AUTOMATION

Subpart 62.01—General Provisions

Sec.

- 62.01-1 Purpose.
- 62.01-3 Scope.
- 62.01-5 Applicability.

Subpart 62.05—Reference Specifications

- 62.05-1 Incorporation by reference.

Subpart 62.10—Terms Used

- 62.10-1 Definitions.

Subpart 62.15—Equivalents

- 62.15-1 Conditions under which equivalents may be used.

Subpart 62.20—Plan Submittal

- 62.20-1 Plans for approval.
- 62.20-3 Plans for information.
- 62.20-5 Self-certification.

Subpart 62.25—General Requirements for All Automated Vital Systems

- 62.25-1 General.
- 62.25-5 All control systems.
- 62.25-10 Manual alternate control systems.
- 62.25-15 Safety control systems.
- 62.25-20 Instrumentation, alarms, and centralized stations.
- 62.25-25 Programmable systems and devices.
- 62.25-30 Environmental design standards.

Subpart 62.30—Reliability and Safety Criteria, All Automated Vital Systems

- 62.30-1 Fallsafe.
- 62.30-5 Independence.
- 62.30-10 Testing.

Subpart 62.35—Requirements for Specific Types of Automated Vital Systems

- 62.35-1 General.
- 62.35-5 Remote propulsion control systems.
- 62.35-10 Flooding safety.
- 62.35-15 Fire safety.
- 62.35-20 Oil-fired main boilers.
- 62.35-35 Internal combustion engine starting systems.
- 62.35-40 Fuel systems.
- 62.35-50 Tabulated monitoring and safety control requirements for specific systems.

Subpart 62.50—Automated Self-propelled Vessel Manning

- 62.50-1 General.
- 62.50-20 Additional requirements for minimally attended machinery plants.
- 62.50-30 Additional requirements for periodically unattended machinery plants.

AUTHORITY: 46 U.S.C. 3306, 3703, 8105; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; Department of Homeland Security Delegation No. 0170.1.

SOURCE: CGD 81-030, 53 FR 17838, May 18, 1988, unless otherwise noted.

Subpart 62.01—General Provisions

§ 62.01-1 Purpose.

The purpose of this part is to make sure that the safety of a vessel with automated vital systems, in maneuvering and all other sailing conditions, is equal to that of the vessel with the vital systems under direct manual operator supervision.

§ 62.01-3 Scope.

(a) This part contains the minimum requirements for vessel automated vital systems. Specifically, this part contains—

(1) In subpart 62.25, the general requirements for all vital system automation;

(2) In subpart 62.30, the criteria used to evaluate the designed reliability and safety of all automated vital systems;

(3) In subpart 62.35, the minimum additional equipment, configuration, and functional requirements necessary when certain vital systems are automated; and

(4) In subpart 62.50, the minimum additional requirements when automated