



FIGURE 59.15-1—APPROVED METHOD OF REINFORCING FURNACES BY MEANS OF ARC OR GAS WELDING

**§ 59.15-5 Stayed furnaces and combustion chambers.**

(a) Where the plate forming the walls of stayed furnaces or combustion chambers become bulged between staybolts, repairs may be made by inserting an additional staybolt in the center of such space supported by the four staybolts.

(b) Where it is desired to rivet a patch to the wall of a stayed furnace or combustion chamber, the defective portion of the plate shall be cut away until solid material is reached, the patch shall be riveted on the waterside, and the staybolts renewed, and extended through the new plate.

**§ 59.15-10 Bagged or blistered shell plates.**

(a) When the shell plates of cylindrical boilers which are exposed to the radiant heat of the fire become bagged or blistered, it shall be the duty of the chief engineer in charge of the vessel to notify the Officer in Charge, Marine Inspection, for examination before raising steam on the boiler.

(b) Where the shell plate is bagged due to overheating, the Officer in Charge, Marine Inspection, may, if in his judgment it is practicable, permit the same to be driven back to its original position.

(c) Where the shell plate has blistered, bagged, or bulged to such an extent

that there is an appreciable thinning of the plate, the Officer in Charge, Marine Inspection, shall require the defective portion to be cut away and the shell repaired by fitting a patch of steel plate conforming to the requirements of § 52.01-90 of this subchapter in place of the defective portion. Care shall be taken that the riveting schedule of the patch is so arranged as to give the plate sufficient strength to withstand the stress placed on it in service.

**Subpart 59.20—Welding Repairs to Castings**

**§ 59.20-1 Carbon-steel or alloy-steel castings.**

Defects in carbon-steel or alloy-steel castings may be repaired by welding. The repairs shall be performed in accordance with the material specification to which the casting was originally supplied.

**PART 60 [RESERVED]**

**PART 61—PERIODIC TESTS AND INSPECTIONS**

**Subpart 61.01—General**

Sec. 61.01-1 Scope.

**Coast Guard, Dept. of Homeland Security**

**§ 61.03-1**

**Subpart 61.03—Incorporation of Standards**

61.03-1 Incorporation by reference.

**Subpart 61.05—Tests and Inspections of Boilers**

- 61.05-1 Scope.
- 61.05-5 Preparation of boilers for inspection and test.
- 61.05-10 Boilers in service.
- 61.05-15 Boiler mountings and attachments.
- 61.05-20 Boiler safety valves.

**Subpart 61.10—Tests and Inspections of Pressure Vessels**

- 61.10-1 Scope.
- 61.10-5 Pressure vessels in service.

**Subpart 61.15—Periodic Tests of Piping Systems**

- 61.15-1 Scope.
- 61.15-5 Steam piping.
- 61.15-10 Liquefied petroleum gas piping for heating and cooking.
- 61.15-12 Nonmetallic expansion joints.
- 61.15-15 Other piping.

**Subpart 61.20—Periodic Tests of Machinery and Equipment**

- 61.20-1 Steering gear.
- 61.20-3 Main and auxiliary machinery and associated equipment, including fluid control systems.
- 61.20-5 Drydock examination.
- 61.20-15 Tailshaft examination.
- 61.20-17 Examination intervals.
- 61.20-18 Examination requirements.
- 61.20-21 Extension of examination interval.
- 61.20-23 Tailshaft clearance; bearing wear-down.

**Subpart 61.30—Tests and Inspections of Fired Thermal Fluid Heaters**

- 61.30-1 Scope.
- 61.30-5 Preparation of thermal fluid heater for inspection and test.
- 61.30-10 Hydrostatic test.
- 61.30-15 Visual inspection.
- 61.30-20 Automatic control and safety tests.

**Subpart 61.35—Design Verification and Periodic Testing for Automatic Auxiliary Boilers**

- 61.35-1 General.
- 61.35-3 Required tests and checks.

**Subpart 61.40—Design Verification and Periodic Testing of Vital System Automation**

- 61.40-1 General.
- 61.40-3 Design verification testing.

- 61.40-6 Periodic safety tests.
- 61.40-10 Test procedure details.

AUTHORITY: 43 U.S.C. 1333; 46 U.S.C. 2103, 3306, 3307, 3703; E.O. 12234, 45 FR 58801, 3 CFR 1980 Comp., p. 277; Department of Homeland Security Delegation No. 0170.1.

SOURCE: CGFR 68-82, 33 FR 18890, Dec. 18, 1968, unless otherwise noted.

**Subpart 61.01—General**

**§ 61.01-1 Scope.**

(a) Periodic tests and inspection shall be made of the main and auxiliary machinery, boilers, and other equipment as prescribed in this part.

(b) The inspections and tests shall insure that the equipment and associated structure are in satisfactory operating conditions and fit for the service for which they are intended.

[CGFR 68-82, 33 FR 18890, Dec. 18, 1968, as amended by CGD 95-012, 60 FR 48050, Sept. 18, 1995]

**Subpart 61.03—Incorporation of Standards**

**§ 61.03-1 Incorporation by reference.**

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish a notice of change in the FEDERAL REGISTER and the material must be available to the public. All approved material is available for inspection at the U.S. Coast Guard, Office of Design and Engineering Standards (G-MSE), 2100 Second Street SW., Washington, DC 20593-0001 and is available from the sources indicated in paragraph (b) of this section or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(b) The material approved for incorporation by reference in this part and the sections affected are as follows: