

**APPENDIX****FIRE TEST PROCEDURE FOR FIRE DOOR CONTROL SYSTEMS****1 General**

- 1.1 Fire door control systems which are intended to be used for fire doors capable of operating in case of fire shall be tested in accordance with the fire test procedure described in this appendix independent of its power supply (pneumatical, hydraulic or electrical).
- 1.2 The fire tests shall be a prototype test and be carried out with the complete control system in a furnace dimensioned according to resolution A.754(18).
- 1.3 The construction to be tested shall be, as far as practicable, representative of that to be used on board ships, including the materials and method of assembly.
- 1.4 The functions of the control system including its closing mechanism shall be tested, i.e. normal functions of and, if required, emergency function, including switchover functions, if this is a basis of the manufacturer's design. The required kind of installation and functions shall be evident from a detailed function description.

**2 Nature of prototype control systems**

- 2.1 The installation of the prototype control system shall fully comply with the manufacturer's installation manual.
- 2.2 The prototype control system shall include a typical door arrangement connected to the closing mechanism. For the purpose of the test a door model shall be used. In case of sliding doors, the model door shall run in original door tracks with original supporting and guide rollers. The model door shall have the weight of the largest door to be actuated by this control system.
- 2.3 In case of pneumatic or hydraulic systems, the actuator (cylinder) shall have the maximum length allowed by the furnace.

**3 Materials for prototype control systems****3.1 Specifications**

Prior to the test, drawings and the list of materials of the test arrangement shall be submitted to the laboratory by the applicant.

**3.2 Control measurements**

- 3.2.1 The testing laboratory shall take reference specimens of all those materials whose characteristics are important to the performance of the prototype control system (excluding steel and equivalent material).