Means of Escape (10.6)

Present requirements:
- 2 means of escape, including main entrance (may be a window).
- Escape hatch required where entrance to the crew space is by way of the engine room.
- Requirements where only one exit from the crew space (size and position).

Proposed requirements:
- In addition to the normal accesses, an emergency escape route for each of the accommodation, wheelhouse and machinery spaces.
- Clear opening of 508 mm X 508 mm.
- Exceptions.
- 2 escapes from the wheelhouse (as far as is practicable).
- Requirements for ladders and stairways (materials, handrails, etc).

Impact:
- Low, on vessels > 15 GT.
- Major, on vessels < 15 GT.
Structural Fire Protection – General (10.7)

Present requirements:
- TP5595.

Proposed requirements:
- Protection of the E/R insulation (damage, absorption of oil).
- Wheelhouse protection (intumescent coating).
- E/R bulkheads (prevent spread of flame and smoke).

Impact:
- Low, requirements already in place.

Structural Fire Protection – Wooden & GRP (10.8)

Present requirements:
- TP5595, built after 1988 (wooden) and all GRP > 15 GT.
- E/R : fire retardant resin or coating of intumescent type.
- Exposed surfaces (crew spaces and wheelhouse) : low flame spread (wooden vessels) or fire retardant resin/coating (GRP, new).

Proposed requirements:
- All (E/R) : internal surfaces, shell and structure : coat fire retardant final.
- L < 12 m (E/R) : decks & bulkheads : fire retardant paint, coating or resin.
- L between 12 and 15 m (E/R) : decks and bulkheads : as for > 15 m where practicable. Fire retardant paint, coating or resin where insulation cannot be fitted.
- L > 15 m (E/R) : decks and bulkheads : F Class division or 30 minutes insulation.

Impact:
- Major on vessels > 15 m, insulation.
Structural Fire Protection – Aluminium (10.9)

Present requirements:
- TP5595.
- E/R : decks and tank surfaces : 30 minute insulation.
- Crew spaces : insulation in way of stove, if lifesaving equipment above.

Proposed requirements:
- E/R decks and bulkheads : 30 minute fire resistance.
- Required on vessels between 15 m and 24 m.
- Where practicable on vessels < 15 m.

Impact:
- Low, already in place on vessels > 15 GT.
- Bulkheads to be protected.

---

Structural Fire Protection – Steel (10.10)

Present requirements:
- None.

Proposed requirements:
- E/R decks and bulkheads on vessels between 15 m and 24 m : A15 Class division or 30 minute fire resistance.

Impact:
- Important, no structural protection presently required on steel vessels
**Interior Finish (10.11)**

**Present requirements:**
- Crew spaces and wheelhouse: as previously seen.

**Proposed requirements:**
- Exposed surfaces of accommodation and WH: fire retardant finish.
- Insulation (thermal or acoustic): non-combustible.
- Primary deck coverings: TP439.
- Upholstered furniture and mattresses: CMHR foams (recommended).
- Fabrics: satisfy flame tests, FTP Code.
- Restrictions on use of paints, varnishes and fabrics (nitro-cellulose).

**Impact:**
- Major on construction costs.
- Hardly applicable to existing vessels.
- Quebec Region will recommend removal of these requirements.

---

**Fire Prevention and Protection (10.12)**

**Present requirements:**
- TP5595, restrictions on use of polyurethane and organic foams.

**Proposed requirements:**
- Fire extinguishing equipment accessible at all times.
- Flammable or combustible materials stored in a locker with fire retardant construction.
- Locker (fire detector and extinguisher).
- Use of insulation materials (prohibitions et exceptions).

**Impact:**
- Important, locker.
Detection & Alarms (10.13)

Present requirements:
- TP5595.
- Required on vessels > 15 GT:
  - glass reinforced plastics,
  - aluminium,

Proposed requirements:
- As per Section 8.18.

Impact:
- Medium, system now required on steel vessels.
- Important for vessels < 15 GT.

Public Address System (10.14)

Present requirements:
- None.

Proposed requirements:
- Where oral communication is restricted: system as per Section 8.19.

Impact:
- Major, very expensive systems.
**Pumping & Piping Systems (10.15)**

**Present requirements:**
- \(L > 12.2\) m: hand or power pump.
- Requirements concerning the installation.

**Proposed requirements:**
- \(L < 12\) m = Small Vessel Regulations (bailer and/or pump).
- \(L > 12\) m = fixed pumping system, as per Table A.
- Conditions where a bilge pump is used (non-return valve, use of 2 pumps).
- Requirements on the installation (operation, valves, priming, etc).
- Requirements on quantity and capacity depending on length of vessel.
- Requirements on piping (number, diameter, material, joints, etc).
- Requirements on sea intakes (diameter, material, accessibility, etc).

**Impact:**
- Low, practices already in place.

---

**Fixed CO2 Fire-Extinction Systems (10.16)**

**Present requirements:**
- Vessels > 15 GT, wooden (built after 1988), GRP, aluminium:
  (2 independant discharges).
- None for steel vessels.

**Proposed requirements:**
- Engine room > 32.2 m³: Approved fixed system.
- Engine room < 32.2 m³: Custom system.
- Vessels < 15m: Custom system as an alternative.
- Number of independant discharges: Steel vessels: 1, all others: 2.

**Impact:**
- System now required on all fishing vessels.
- Custom systems now permitted, under conditions.
- Engine room to be water tight.
Thank you

Alain Blouin
Marine Inspector
Transport Canada / Marine Safety
190, de la Cathédrale, Rimouski, G5L 5H9
418-722-3040 ou 1-800-427-4417
blouina@tc.gc.ca