

MSC Guidelines for Review of OSV Structural Fire Protection

Procedure Number: T1-8

Revision Date: 07/01/03

References

- a. 46 CFR Subchapter I
 - b. 46 CFR Subchapter L
 - c. International Convention for the Safety of Life at Sea, 1974, and its Protocol of 1978 (SOLAS), as amended
 - d. IMO MSC circular 847, Interpretations of vague expressions and other vague wording in SOLAS chapter II-2, June 12, 1998
 - e. Navigation and Vessel Inspection Circular (NVIC) 9-97; Guide to Structural Fire Protection
 - f. International Code for Application of Fire Test Procedures (FTP Code), IMO Resolution MSC.61(67), 1998.
 - g. Marine Safety Manual (MSM), Vol. II, Chapter 9
 - h. Policy File Memorandum (PFM) on the Implementation of the FTP Code – Acceptance of Structural Fire Protection Materials for US Flag SOLAS Vessels, MSE-4, www.uscg.mil/hq/g-m/mse4/
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Disclaimer

These guidelines were developed by the Marine Safety Center staff as an aid in the preparation and review of vessel plans and submissions. They were developed to supplement existing guidance. They are not intended to substitute or replace laws, regulations, or other official Coast Guard policy guidance. The responsibility to demonstrate compliance with all applicable laws and regulations still rests with the plan submitter. The Coast Guard and the U. S. Department of Transportation expressly disclaim liability resulting from the use of this document.

Contact Information

If you have any questions or comments concerning this document, please contact the Marine Safety Center by e-mail or phone. Please refer to the Procedure Number: T1-8

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General Review Guidance

- If the vessel is new and not a sister vessel, has the Application for Inspection been submitted? In general, no plan review will occur until receipt of a copy of the Application.

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- Is it clearly stated what is desired from the MSC? Are all plans requiring Coast Guard review and/or approval submitted in triplicate? Are there any special or unusual requests involved?
 - Is the vessel being reviewed by ABS under NVIC 10-82? If yes, then MSC review of structural fire protection (SFP) items is not required.
 - Are all spaces identified and designated on the plan?
 - Verify applicability of Regulations. See 46 CFR 90.05 (Subchapter I), 46 CFR 125.100 (Subchapter L), and SOLAS I/2, I/3, and II-1/1.
 - Ensure the following drawings (items) are submitted:
 - Insulation schedule
 - Fire Protection plans of A/B class bulkheads and decks
 - Ventilation Arrangements
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- For OSVs certificated under 46 CFR, **Subchapter I**, verify compliance with the following:
 - Woodwork must be insulated from heated surfaces in accordance with 46 CFR 92.05-5.
 - Construction (46 CFR 92.07-10)
 - Steel construction required
 - “A” class boundaries (“A0” class boundaries iaw the FTP Code, Annex 2, “Products which may be installed without testing and/or approval” FTP Code, must be **4mm** thick steel while “A0” class boundaries iaw NVIC 9-97 must be **3mm** thick steel).
 - Boundary bulkheads
 - Stairtowers and doors per 46 CFR 92.07-10(d)(4), and 92.07-10(g)
 - Materials and miscellaneous items per 46 CFR 92.07-10(d)(5) through (9), and 92.07-10(g)
 - Note that compliance with SOLAS using the IC method, as defined in SOLAS II-2/9.2.3, is an equivalent standard to the SFP requirements of Subchapter I (46 CFR 92.07-1(c))
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- For OSVs certificated under 46 CFR, **Subchapter L**, verify compliance with the following:
 - General fire protection (46 CFR 127.220)
 - Exhausts of engines, galley uptakes, and similar sources of ignition kept clear of and insulated from other combustibles.
 - Paint lockers and similar compartments constructed of steel.
 - A-60 bulkheads around emergency generating room or other spaces with vital components of emergency power source, if adjacent to spaces containing ship service generators

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- For OSVs certificated under **SOLAS**(OSV's over 500GT INT), verify compliance with the following:
 - For OSVs on international voyages, the SFP requirements of SOLAS, Ch. II-2 apply. Note the diagrams and discussions in reference (d) for acceptable arrangements. Verify compliance with the following SOLAS II-2 regulatory citations:

Regulation	Title
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11	<u>Structural Integrity</u>
.2	Material
.3	Aluminum Alloy
.4	Machinery Spaces – Crowns/Casings/Floor Plating
.5	Overboard Fittings
9	<u>Containment of Fire</u>
.2.3	Cargo Ships Except Tankers
.3	Penetration in fire resisting divisions
.4.2	Doors in fire-resisting divisions in cargo ships
.5	Protection of openings in machinery space
.6	Protection of cargo space boundaries
.7	Ventilation systems
.7.5.2	Exhaust ducts from galley ranges
5	<u>Fire Growth Potential</u>
.2	Closing Appliances and Stopping Devices
.3	Fire Protection Materials - Use of Combustibles
6	<u>Smoke Generation Potential and Toxicity</u>
.3	Primary Deck Coverings

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8 Control of Smoke Spread

8.2 Protection of Control Stations

8.3 Release of Smoke from Machinery Spaces

8.4 Draught Stops

Additional Miscellaneous Requirements

4.3 Arrgmts for gaseous fuel for domestic purposes

19 Carriage of dangerous goods

- For OSVs on international voyages and with keel-laying dates after July 1, 1998, compliance with the FTP Code, as cited within SOLAS, is mandatory. However, in accordance with reference (h), the Coast Guard has determined that existing type approved materials that have been tested to the criteria in 46 CFR 164 and that have valid approval certificates are acceptable for use in the construction of SOLAS vessels with a keel laying date prior to 31 December 2003. See reference (h) for acceptable approval certificates.

Attachments

None