

MSC Guidelines for Generation of a Tank Barge's Plan Review Information Sheet (PRIS)

Procedure Number: T1-11

Revision Date: 07/01/03

References

- a. 46 CFR, Subchapter D, Tank Vessels (LFGs)
 - b. 46 CFR, Subchapter O, Part 151, Barges Carrying Bulk Liquid Hazardous Material Cargoes
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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 documents. 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 Homeland Security 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: **T1-11a**

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Discussion

- The MSC's Tank Vessel and Offshore Division (TVO) is responsible for reviewing general arrangements, stability, and structural items for tank barges. The results of these reviews may be captured in a PRIS document, used to aid the local inspection in updating a vessel's Certificate of Inspection (COI) with appropriate loading restrictions. The loading restrictions typically indicated the maximum allowed density of cargo and weight limits allowed per tank, based on review of the structural design and stability calculations. The TVO division is also responsible for reviewing cargo piping and vapor control systems, and generates 46 CFR 151 cargo authority lists upon request by the owner/submitter, with the receipt of a tank group characteristics form. For existing vessels, generation of an updated cargo authority list does not always require generation of a new PRIS document. However, in many other cases a new or updated cargo authority list also requires generation of a new PRIS document, when any of the following apply:
 - For all Subchapter O vessels under new construction or Subchapter D barges carrying LFGs
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General Review Guidance

- For existing vessels, when the updated cargo authority involves any of the following:
 - increase of authorized maximum cargo density
 - changes in required hull type or designated route
 - changes in applicable regulations from Subchapter O, Part 151 to Part 153 (e.g. a request is made to carry a cargo listed under Part 153,

- 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.

- 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?

- Verify applicability of regulations, based upon information in the submission. Most tank barges will fall under a dual 46 CFR, Subchapter O/D classification, although O/I is also possible (a PRIS is not required for a tank barge certificated only under Subchapter D). Verify the correct Hull Type (I, II, or III) as well. See 46 CFR 30.01, 90.05, 150.110, 151.01-1, and 153.1.

- Generation of a PRIS is completed after a full review of all general arrangements, structural, and stability items. The PRIS document specifies route, cargo authority, conditions of carriage, and liquid bulk cargo authority information, as an aid for inclusion in the vessel's COI (see attached example). Loading constraints include maximum cargo density and cargo weight per tank, based on the minimum values determined between the stability and structural design reviews. Within the general arrangement, structure, and/or stability, submittals, include the desired l parameters for items such as route, tank group characteristics list, maximum cargo weight, and maximum density.

- Refer to each of the applicable MSC Guidelines for Review of General Arrangements, Structural, and Stability, for guidance on review of these plans and calculations.

Attachments

- Sample PRIS
- Tank Vessel Stability Matrix