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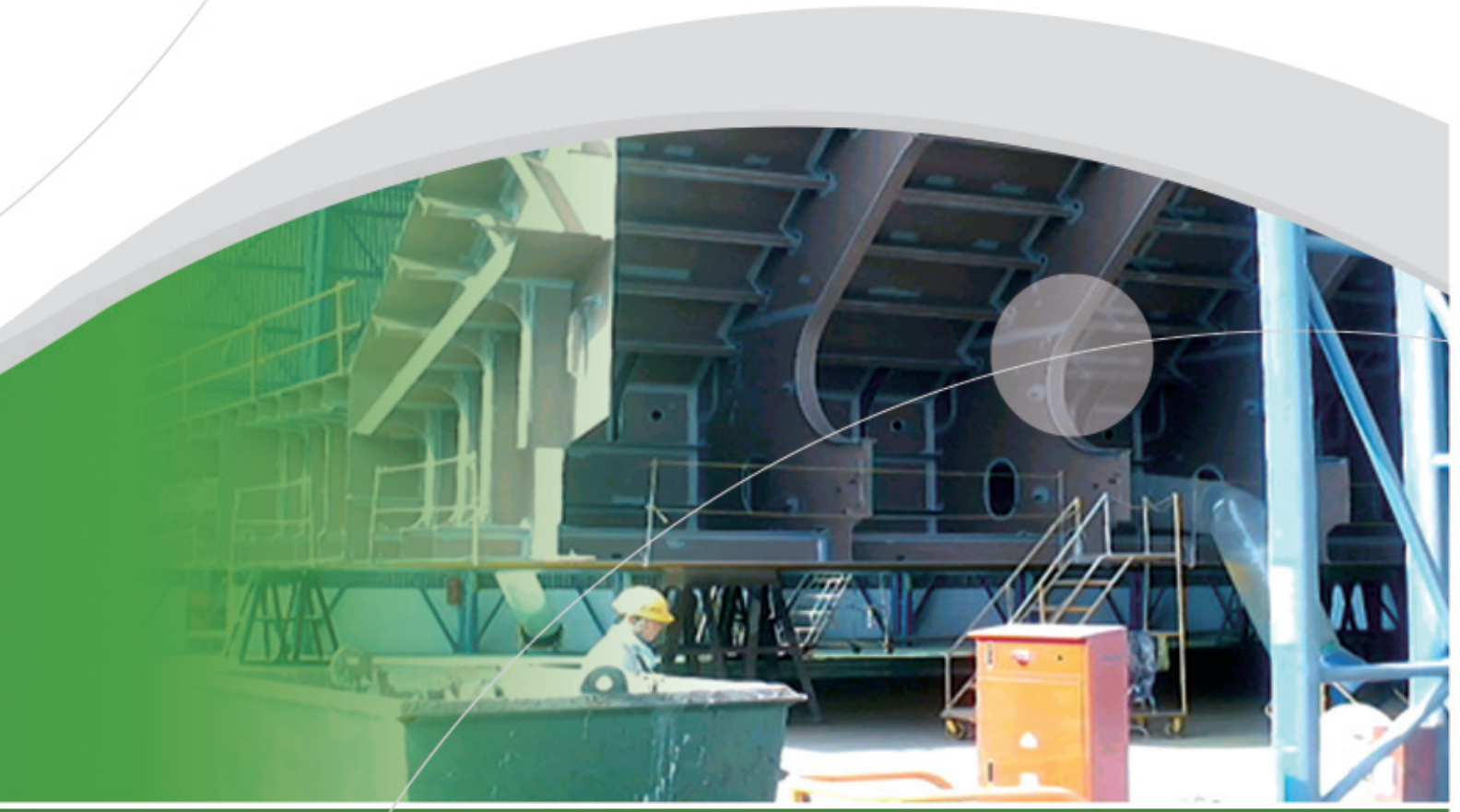
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IMO PSPC Requirements and Coating Services provided by CCS

IMO PSPC Requirements and Coating Services

INTRODUCTION

The Performance Standard for Protective Coatings for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-side Skin Spaces of Bulk Carriers (hereinafter referred to as PSPC) was adopted in December 2006 by the Maritime Safety Committee under the International Maritime Organization in accordance with the amendments to the regulation II-1/3-2 of the International Convention for the Safety of Life at Sea (SOLAS), 1974.

The new PSPC requirements apply to ships of not less than 500 gross tonnage:

1. for which the building contract is placed on or after 1 July 2008; or
2. in the absence of a building contract, the keels of which are laid or which are at a similar stage of construction on or after 1 January 2009; or
3. the delivery of which is on or after 1 July 2012.

The new standard also applies to CSR bulk carriers and oil tankers for which the building contract is placed after 8 December, 2006.

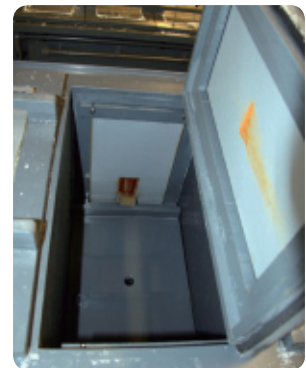
In addition to ballast tanks, PSPC also covers:

- ⊙ requirements for local coating in cargo oil tanks of crude oil tankers (compulsory and under development)
- ⊙ requirements for coatings in void spaces (recommended)



MAIN POINTS OF IMO PSPC:

- ⊙ The coating system is designed for a target life of 15 years
- ⊙ The coating system is subject to approval for compliance with the requirements of MSC.215(82).
- ⊙ Uniform and strict requirements for steel surface preparation and coating application
- ⊙ The Coating Technical File is required.
- ⊙ Qualification requirements for coating inspectors
- ⊙ Agreements on coating inspection between three parties (e.g. the shipowner, the shipyard and the coating manufacturer)
- ⊙ Verification and inspection of implementation of coating requirements by the Administration or recognized organizations
- ⊙ Requirements for in-service maintenance



Equipment in Coating Laboratory

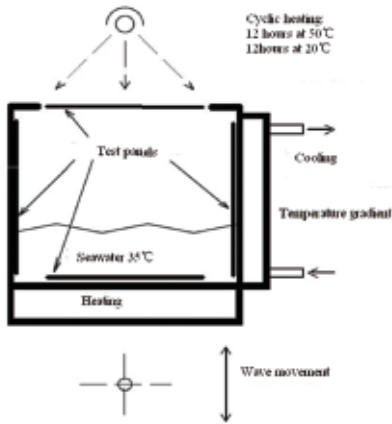
ADVANTAGES OF CCS

- ⊙ CCS was the vice chairman of IMO DE sub-committee during the development of PSPC. CCS also participated in IMO China delegate, IACS Expert Group and IACS Joint Working Group, and was involved in the development of technical requirements including IMO PSPC, IACS PR34 and the Guidelines for Implementation, in which CCS' significant contribution is well recognized by the Industry.
- ⊙ CCS is well informed of the latest development of PSPC and has accurate understanding of its content due to her continued involvement in the establishment of related standards, and therefore can help shipowners and shipyards understand the standard better.
- ⊙ The Guidelines for Anticorrosion Inspection of Hull Structure was developed by CCS to provide guidance for shipowners, shipyards and paint manufacturers in implementation of PSPC.
- ⊙ The Recommendations on Capacity Building for Implementation of IMO PSPC was developed and promoted by CCS actively. Measures to be implemented to comply with PSPC are proposed in the Recommendations, which cover the aspects of publicity and propaganda, research and testing of paints, transposition and publicity of standards, contract protection, building of test laboratories, trial work in shipyards, hardware construction and workmanship improvement in shipyards, and training of coating inspectors, etc. The Recommendations have been reported to the Ministry of Transport and the Commission on Science, Technology, and Industry for National Defense, and are highly praised by the national Administration.
- ⊙ CCS has worked jointly with many shipyards of different types and scales as well as regional ship administrations to promote the compliance with PSPC requirements by shipyards in both infrastructures and capacities.
- ⊙ The research project named Research on application and implementation of IMO PSPC assigned by the Ministry of Transport has been undertaken by CCS.

provided by CCS



SERVICE PROVIDED BY CCS



Coating test schematic diagram

- ◎ CCS provides class notation PSPC, which indicates that the ship is in compliance with the requirements of IMO PSPC and has been verified by CCS.
- ◎ CCS may provide consultancy or evaluation service for a shipyard in order to analyze the disparity between the current practice of the yard and the PSPC requirements.
- ◎ CCS may issue works approval certificate to a paint manufacturer, certifying that the coating system provided by the paint manufacturer is in compliance with the requirements of IMO PSPC and IACS PR34.
- ◎ Based in Shanghai, CCS - DNV Technology Institute is a coating laboratory jointly funded by CCS and DNV, which can carry out coating system pre-qualification tests as required by PSPC.
- ◎ Authorized by the Chinese government, CCS has actively participated in and promoted the establishment of the system for certification of marine coating inspectors of China. Certified coating inspectors will be recognized by the Administration as “equivalent coating inspectors” in compliance with PSPC requirements.



block in Coating Workshop Coated



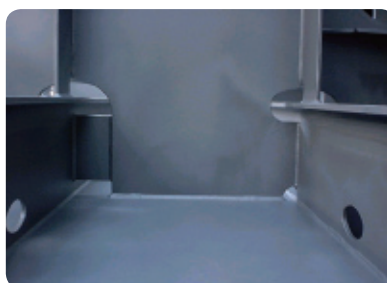
block in Coating Workshop to be Coated



Coating Application



Coating Application



Internal of Coated Ballast Tank



The coating system is designed for a target life of 15 year