

MODU Rule Changes Effective 01 January 2022

Russell 'Russ' Ford
Chief Surveyor – Offshore
American Bureau of Shipping (ABS)



Agenda

Review the recent updates and changes to the ABS MODU Rules that were implemented 01 January 2022

- Offshore Industry engagement and approval through our ABS Technical and Regional Committees
- Rule Changes address both NC/MM and SAC
- Not a comprehensive review; highlights key changes to certain Rule Sections



Part 4 – Machinery

- Requirements for use of Non-Standards Valves (4-2-2/9.1)
- Clarifications for the Storage of Helicopter Fuels (4-2-6/7.1.2)
- Clarifications regarding the Electrical Load Analyses to be provided to ABS Engineering (4-3-2/1.7)
- Clarifications for Accumulator Batteries (4-3-3/2.7)
- Additional identified to High Fire Risk Areas (4-3-3/3.31)
- Added section for Equipment in Hazardous Areas (4-3-3/9.12)

Reasons: Address areas needing improvement within our Rules with a focus on fire prevention. This is a NC/MM requirement.

Part 7-2-5/1.7 Special Surveys (Hull)

- Added Wastage Allowances
 - Table 1 is now the wastage allowances
 - #'s of other Tables in this section have adjusted downwards; *'where and when' to gauge'*
 - Please note the following:
 - Wastage is defined by the importance of the structure and not the location; refer to Part 3 (Hull Part) of the MOU Rules for definitions
 - Both local and global wastage
 - Not applicable for Pitting
 - Older units, which may be considered 'overbuilt'; a scantling assessment may be performed; to be ABS Eng appv'd

In cases where 7-2-5/1.7 TABLE 1 is found not to be applicable, whether the unit has original scantlings in excess of the ABS Rule requirements, or the Owner has conducted additional analysis, ABS Engineering is to be contacted. The Owner may submit a revised wastage scantling or wastage table, along with calculations showing compliance with the Rules for consideration.

TABLE 1
Wastage Allowances (2022)

<i>Application Structure</i>	<i>Local Excessive Wastage</i>	<i>Local Substantial Corrosion</i>	<i>Global Excessive Wastage</i>	<i>Global Substantial Corrosion</i>
Special	5.00%	3.75%	5.00%	3.75%
Primary	15.00%	11.25%	10.00%	7.50%
Secondary	25.00%	18.75%	15.00%	11.25%
<i>Other Structures*</i>	30.00%	22.50%	-	-

Note: (*) "Other Structures" include structures that are less critical than a "Secondary Application Structure" and would include plating that may not be more than minimum Rule required thickness and mainly meant to be used for weather/gas/fire-tight boundaries, walkways, etc.

The wastage allowances in the table above are for average wastage readings. Individual readings in way of pits may be dealt with separately using a standard such as IACS Recommendation No.12 or Recommendation No.47.

Reasons: Added for transparency as wastage allowances were previously in a P/I and not readily accessible to external clients.



Part 7-2-5/0 Special Surveys (Machinery)

- Greatly expanded and clarified Survey requirements
 - Hull Connections and Piping of SW Systems
 - Pressure Vessels incl. Heat Exchangers
 - Watertight integrity
 - Electrical Installations
 - Hazardous Areas
 - Passive and Active Fire Protection
 - Outfitting
 - Non- CDS Drilling System Piping
 - Jacking Systems



Reasons: Added requirements of machinery were updated to reflect requirements in the ABS MVRs

Part 7-A2-2 Portable Modules

- Greatly expanded and clarified requirements
 - General Requirements
 - PAMs (Accommodation)
 - PIMs (Industrial)
 - Container Boxes



Reasons: Clarified and consolidated requirements into one (1) section.

Part 8 – Specific Unit Types

- Update to for the ventilation of Hazardous Areas (8-2-1/9.11) units that are engaged in drilling operations
 - ABS Rules have required to have 1 air change every two (2) minutes with a minimum of 12 changes per hour
 - Alternative (in the Rules update) will allow for a reduction of air changes to a minimum of 12 changes per hour, provided that air change rate is found sufficient to prevent any explosive concentration of gas or vapor mixtures above 25% of LEL
 - Supporting calculations to be in accordance with a known standard such as API, IEC, etc.

Reasons: provision of a flexible alternative based on the expected accumulation versus a prescriptive requirement.

Next Steps

- Review Rule Changes with our Offshore Survey Teams
 - Update the affected ABS internal guidance for the new Rule Changes for our Surveyors
- ABS Rule Committee Meetings scheduled for 1Q2022 for review of July 2022 and Jan 2023 PRCs
 - Part of the ABS Rule Process
- Continue to improve our Rules

Thank You

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