



GUIDE FOR

LAY-UP AND REACTIVATION OF MOBILE OFFSHORE DRILLING UNITS

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Foreword (1 June 2017)

This Guide has been prepared by the American Bureau of Shipping to provide Owners guidelines for the lay-up and reactivation of Mobile Offshore Drilling Units. These guidelines are of a general nature due to the wide variety of MODU configurations, geographic and metocean conditions of lay-up sites and degree of maintenance during lay-up.

This Guide expands the “Laid-up” status to provide more precise definitions regarding exact status of a stacked unit. This Guide provides the following five options for laid-up life cycle status for units classed with ABS:

- i) Laid-up with no Record Comment
- ii) Laid-up with the following Record Comments:
 - a) Laid-up Warm Stacked
 - b) Laid-up Cold Stacked
 - c) Enhanced Laid-up Warm Stacked
 - d) Enhanced Laid-up Cold Stacked

These conditions will be noted in the unit’s survey status and the *Record*. This Guide also introduces an “Enhanced” status for a laid up unit, which means that the unit has had its lay-up location and procedures reviewed and verified by ABS in accordance with this Guide. The goal of having a unit enrolled in Enhanced lay-up is to preserve the total asset value, potentially qualify for a reduced insurance premium while stacked, along with reducing the time and cost for reactivation.

This Guide becomes effective on the first day of the month of publication.

Users are advised to check periodically on the ABS website www.eagle.org to verify that this version of this Guide is the most current.

We welcome your feedback. Comments or suggestions can be sent electronically by email to rsd@eagle.org.



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SECTION 1 General (1 June 2017)

At the request of the owner and to assist in the maintenance of class, ABS will review, survey, and confirm by issuance of a factual Lay-up Report, the actions taken to preserve and protect a unit in lay-up. This Guide contains those precautions and procedures considered by ABS to accomplish this objective; alternative approaches to accomplish the same may be considered.

1 General

- i) Upon the owner's written notification to ABS of a unit's lay-up, it will be noted in the unit's survey status and the *Record* will be updated to reflect the change in status. Surveys falling due during lay-up are then to be held in abeyance until the unit reactivates, at which time they are to be brought up to date.
- ii) The Reactivation Survey requirements for the unit are subject to special considerations based on the survey status at the time of the commencement of lay-up, the length of the lay-up period, and the conditions under which the unit has been maintained during that period.
- iii) Where initial lay-up preparations and procedures are reviewed and surveyed by ABS, and also verified annually by survey, consideration may be given to deducting part or all of the time in lay-up from the progression of survey intervals, or to modifying the requirements for up-dating surveys at time of reactivation.
- iv) There are three conditions for a Unit with a Laid-up "Life Cycle State" in the *Record*, Laid-up with no Record Comment; Laid-up Warm Stacked with the corresponding Record Comment and Laid-up Cold Stacked with the corresponding Record Comment. The Record Comments "Laid-up Warm Stacked" and "Laid-up Cold Stacked" can also have the Enhanced modifier, to have Record Comments showing "Enhanced Laid-up Warm Stacked" and "Enhanced Laid-up Cold Stacked". These conditions are described in Subsection 1/3 below.

3 Definitions

3.1 Life Cycle Status "Laid-up"

All laid-up units will have a Life Cycle Status of "Laid-up". When a unit has a "Laid-up" Life Cycle Status in the *Record* without any additional Record Comment, this means that the unit is out of service for an undetermined length of time. The owners have informed ABS that the unit is laid up, but no procedures for lay-up have been reviewed by ABS. While in laid up status, class surveys are held in abeyance and statutory surveys are maintained when required by the flag Administration. Prior to returning to service a Reactivation Survey in accordance with Section 4 of this Guide, including all due and overdue class and statutory surveys is to be carried out. An initial layup survey and annual surveys are not required for this Life Cycle Status and no attendant Record Comment.

Units with lay-up procedures, initial lay-ups surveys and periodic examinations verified by ABS will have additional Record Comments describing the type of lay-up as listed below.

3.3 Record Comment "Laid-up Warm Stacked"

When a unit has a "Laid-up Warm Stacked" Record Comment in the *Record*, this means the unit is not in operation, is positioned in a sheltered location and there is a crew onboard carrying out the maintenance and preservation activities described in the ABS agreed lay-up procedure. In this case, 1/1iii) is applicable. Class surveys are held in abeyance and statutory surveys are maintained when required by the flag Administration. However, annual lay-up surveys are required to be carried out. Prior to returning to service, a reactivation survey taking into account the degree of maintenance conducted while laid-up, including all due and overdue statutory surveys is to be carried out.

3.5 Record Comment “Laid-up Cold Stacked”

When a unit has a “Laid-up Cold Stacked” **Record Comment** in the *Record*, this means that the unit is not operating, is positioned in a sheltered location, is unmanned, and that the Lay-up procedures have been reviewed by ABS. In this case, 1/1iii) is applicable. All class and statutory surveys are held in abeyance. However, annual lay-up surveys are required to be carried out. Prior to returning to service, a reactivation survey taking into account the degree of maintenance conducted while laid-up, including all due and overdue statutory surveys, are to be carried out.

3.7 “Enhanced” Record Comment

The goal of having a unit enrolled in the Enhanced Lay-up program is to manage the lifecycle and asset value by minimizing risk exposure, along with reducing the time and cost for reactivation. In addition to the requirements of Laid-up Warm Stacked or Laid-up Cold Stacked, when a unit has an “Enhanced Lay-up” **Record Comment** in the *Record*, this means that the unit has had its lay-up location and procedures reviewed and verified in accordance with Section 2 of this Guide. For this **Record Comment**, a review of the proposed lay-up procedure, including the location chosen, the moorings, a risk analysis of the location, and the capability of emergency response is required.

The **Record Comment** will show in the *Record* as follows:

Enhanced Laid-up Cold Stacked

Enhanced Laid-up Warm Stacked

5 Lay-up Surveys

When a unit is laid-up with a “Laid-up Warm Stacked”, “Laid-up Cold Stacked”, or “Enhanced” **Record Comment** in the *Record*, an Initial **Lay-up** Survey is required. After being laid up, the unit will also be subjected to periodic surveys. The scope of such surveys will consist of verification of all items on the ABS agreed lay-up procedure.

In the case of “Cold Stacked” units, in addition to the verification detailed in Subsection 2/7 of this Guide, the equivalent to an Annual Hull Survey is to be carried out. In the case of “Warm Stacked” units, in addition to the verification listed in Subsection 2/7 of this Guide, the equivalent to an Annual Hull Survey and an Annual Machinery Survey is to be carried out. **Units** with “Enhanced Lay-up” will have verification requirements in accordance with Subsection 3/3 of this Guide in addition to those in Subsection 2/7.

7 Maintenance of Record Comment

When the **unit** has a **Record Comment** of “Laid-up Warm Stacked”, “Laid-up Cold Stacked”, or “Enhanced”, **consideration may be given to deducting part or all of the time in lay-up from the progression of survey intervals, or to modifying the requirements for updating surveys at the time of reactivation.**

The **unit** will not be eligible for deduction of any time in lay-up from the survey cycle in any of the following circumstances:

- i) If the periodical surveys required for maintenance of the **Record Comment** are not carried out by their due dates and no extension has been granted
- ii) If recommendations issued by the Surveyor regarding degree of compliance with the lay-up procedure are not carried out by their due dates and no extension has been granted
- iii) If any damage, failure, or repair has not been completed as recommended

9 Lay-up Overview

<i>Record Comment</i>	<i>None</i>	<i>Laid-up Cold Stacked*</i>	<i>Laid-up Warm Stacked*</i>	<i>Enhanced Laid-up Cold Stacked</i>	<i>Enhanced Laid-up Warm Stacked</i>
Owner sends notification to ABS <i>that unit is Laid-up</i>	X	X	X	X	X
Lay-up Procedure Reviewed		X	X	X	X
Engineering Review of Mooring design		*	*	X	X
Survey of Mooring		*	*	X	X
Initial <i>Lay-up</i> Survey		X	X	X	X
Annual Hull Survey equivalent		X	X	X	X
Annual Machinery Survey Equivalent			X		X
Underwater Examination of mooring system every 3 years		*	*	X	X
Surveys held in abeyance	X	X	X	X	X
Deduction of time in lay-up		X	X	X	X
Reactivation Survey	X	X	X	X	X
Reactivation Survey considers Lay-up Procedure		X	X	X	X
Reactivation follows submitted Reactivation Procedure				X	X

Key:

X Required

* Can be conducted at Owner's request



SECTION 2 Lay-up and Surveys of Laid-up Mobile Offshore Drilling Units

(1 June 2017) This Section applies to **units** requesting a **Record Comment** of Laid-up Warm Stacked, Laid-up Cold Stacked, and **units** with the Enhanced **modifier**.

1 Lay-up Procedure Requirements (1 June 2017)

Lay-up procedures submitted to ABS are to contain the following information for each unit:

- i) General description of the lay-up plan
 - a) Location of the unit while laid-up
 - b) Description of the mooring
 - c) Number of personnel expected to be on board
 - d) Status of cranes during lay-up
 - e) Description of any external verification such as security personnel or unit patrols
- ii) List of systems active while laid-up
- iii) List of systems partially active while laid-up
- iv) List of systems shut down and preserved while laid-up
- v) Procedures for preserving each system that is shut down
- vi) Procedures for tracking overdue maintenance or parts required for reactivation
- vii) Procedures for periodic maintenance of preservation while laid up
- viii) Procedures for backup and storage of software necessary for operation of the unit
- ix) Units with “Enhanced” Record Comment modifier also need to submit items listed in Section 3

3 Fire and Safety Requirements for all Laid-up Units (1 June 2017)

- i) All the unit’s fire safety equipment including emergency fire pump are to be proved in good order immediately prior to lay-up and maintained ready for immediate use thereafter.
- ii) The unit’s fire extinguishing piping is to be proven in good condition. If the piping is drained, drains are to be kept only sufficiently open to allow drainage of condensate. Alternatively, the fire main lines may be filled with inhibited fresh water, including anti-freeze if necessary, or left in service. The International Shore connection, where provided, is to be loosely installed and its location prominently marked. Fire line valve stems are to be freed up and lubricated.
- iii) All ventilators and air intake or exhaust openings **for spaces not active** are to be adequately covered. Supply and exhaust openings for necessary emergency diesel generator or fire pump engines are to be arranged for immediate or automatic opening.