



AMERICAN BUREAU OF SHIPPING CLASS SURVEY REPORT

Vessel Name	DEEPWATER HORIZON	Class Number	0139290
Attending Office	Morgan City, LA	Report Number	MC1722260
First Visit Date	01-Sep-2009	Last Visit Date	13-Sep-2009

MC1722260_C : Special Continuous Survey - Hull 2

To complete Special Continuous Survey - Hull 2 the following checklist items remains to be dealt with, checklist item sequence numbers 36, 37

MC1722260_D : Drydocking Survey

Statement/Observation

1544 UWILD Survey: Following Valves renewed
 1. Port side Sea suction valve (no 115V)
 2. HiPap Valve
 3. All sea valves in Stbd. Fwd & Aft Column Pump rooms
 4. All sea valves in Port Fwd. Column Pump room.

1559 U.S. Underwater Divers water blasted Stbd. Aft Column in way of connection to Potoon and K-Braces. Using Eddy Current Procedure ABS surveyor witnessed the entire Stbd. Aft Column to Port Potoon connection. All were satisfactory.

The Eddy Current was backed up using Mag-particle in 10% of the areas specified by the attending ABS surveyor.

No indications wer found using Eddy Current or Mag-Particle methods.

EDDY CURRENT INFO

Model# Locator 3S
 Serial # 554569/08
 Manufacture Name-Hocking
 Calibrated on 15 April 2009

MPI INFO

Model# PM-6 Fixed yokes
 Serial# 1207
 Test Block - 40lbs.

MC1722260_E : Other Survey (Class)

Statement/Observation

A B Report A



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1543 Witnessed DP trials after upgrading software from version 3.0.11 to 6.2.2

1. DP General Test
2. DP System Test
3. Blackout Prevention
4. DP System Options
5. Miscellaneous

MC1722260_C : Special Continuous Survey - Hull 2

Statement/Observation

1541 Continued Special Continuous Hull Survey. The following tanks were opened, ventilated and then surveyed, found satisfactory and credited towards the 5year special.

- 1). Ballast 6P
- 2). Ballast 6S
- 3). ballast 7P
- 4). Ballast 7S
- 5). Ballast 8P
- 6). Ballast 8S
- 7). Ballast 9P
- 8). Ballast 9S
- 9). Ballast 10P
- 10). Ballast 10S
- 11). Ballast 11P
- 12). Ballast 11S
- 13). Ballast 12P
- 14). Ballast 12S
- 15). Liquid Mud Pits 1-10
- 16) Four (4) Potoon "K" Braces
- 17). #1 Liquid Mud Potoon Storage Tank
- 18). #2 Liquid Mud Potoon Storage Tank

MC1722260_C : Special Continuous Survey - Hull 2

Description	Inspected Type	Inspected By	State
Space Ballast Tank 07P PONTOON	Examination	Class	Satisfactory

A B Report A



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Ballast Tank 07S PONTOON	Examination	Class	Satisfactory
Ballast Tank 08P PONTOON	Examination	Class	Satisfactory
Ballast Tank 08S PONTOON	Examination	Class	Satisfactory
Ballast Tank 09P PONTOON	Examination	Class	Satisfactory
Ballast Tank 09S PONTOON	Examination	Class	Satisfactory
Ballast Tank 10P PONTOON	Examination	Class	Satisfactory
Ballast Tank 10S PONTOON	Examination	Class	Satisfactory
Ballast Tank 11P PONTOON	Examination	Class	Satisfactory
Ballast Tank 11S PONTOON	Examination	Class	Satisfactory
Ballast Tank 12P PONTOON	Examination	Class	Satisfactory
Ballast Tank 12S PONTOON	Examination	Class	Satisfactory
Ballast Tank 20P TRANSV. BRACE	Examination	Class	Satisfactory
Ballast Tank 20S TRANSV.BRACE	Examination	Class	Satisfactory
Ballast Tank 21P TRANSV.BRACE	Examination	Class	Satisfactory
Ballast Tank 21S TRANSV.BRACE	Examination	Class	Satisfactory
Bulk Mud Tank	Examination	Class	Satisfactory
Liquid Mud Tank 01PIB PAFT COLUMN	Examination	Class	Satisfactory
Liquid Mud Tank 01SIB SAFT COLUMN	Examination	Class	Satisfactory
Liquid Mud Tank 02PIB PAFT COLUMN	Examination	Class	Satisfactory
Liquid Mud Tank 02SIB SAFT COLUMN	Examination	Class	Satisfactory

MC1722260_C : Special Continuous Survey - Hull 2

Tank Coating Condition	Areas	Coating Description	Current Condition	Previous Condition	Other Means Of Protection
Access Trunks	Overall	Hard Coating	Good		
Crane Foundations	Overall	Hard Coating	Good	02-Jan-2007	Good
Elevator Shaft	Overall	Hard Coating	Good	02-Jan-2007	Good
Escape Trunk	Overall	Hard Coating	Good	02-Jan-2007	Good
Void A-01-P	Overall	Hard Coating	Good	09-Nov-2005	Good
TRANSV.BRACE					
Void A-01-S	Overall	Hard Coating	Good	02-Jan-2007	Good
TRANSV.BRACE					
Void A-02-P DIAGONAL	Overall	Hard Coating	Good	09-Nov-2005	Good
BRACE					
Void A-02-S DIAGONAL	Overall	Hard Coating	Good	02-Jan-2007	Good
BRACE					
Void A-03-P DIAGONAL	Overall	Hard Coating	Good	09-Nov-2005	Good
BRACE					
Void A-03-S DIAGONAL	Overall	Hard Coating	Good	02-Jan-2007	Good

A B Report A



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BRACE

Void A-04-P	Overall	Hard Coating	Good	09-Nov-2005	Good
TRANSV.BRACE					
Void A-04-S	Overall	Hard Coating	Good	02-Jan-2007	Good
TRANSV.BRACE					
Mud Pit 10 MUD PIT ROOM	Overall	Hard Coating	Good	09-Nov-2005	Good



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Additional Requirements

The following items to be dealt with to the satisfaction of the attending Surveyor as follows

Item	Due by Survey	Due by Date
1542	Renewal Survey - MODU 2	28-Feb-2011

MC1722260_B : Survey for Compliance - Statutory

1503	Outfitting		
Opened In Report	MC1093792_N - Other Survey (Statutory)	08-Dec-2008	Morgan City, LA
Closed In Report	MC1722260_B - Survey for Compliance - Statutory	13-Sep-2009	Morgan City, LA
Due By	Annual Survey - MODU 4, 28-May-2010	Minor	Closed
Found	<p>A Long Range Identification and Tracking System (LRIT) was fitted as part of a new GMDSS Installation aboard the vessel. No documentation was available to confirm that the was In compliance with the following:</p> <ol style="list-style-type: none"> 1. Type approved in accordance with the provisions of regulation V/19-1 and the Revised performance standards (MSC.263(84)); or 2. Certified as meeting the requirements of regulation IV/14 and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1 of MSC.1/Circ.1257; 3. Certified as meeting the requirements of IEC 60945 (2002-08) and IEC 60945 Corr.1 (2008-04) and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1 of MSC.1/Circ.1257. <p>Note: The Performance Test Report to be provided by an Application Service Provider (ASP) , approved by the Marshall Islands Flag Authority.</p>		
Recommendation	<p>Prior to completion of the Annual MODU Code Survey due 29 May 2010 , the LRIT is to be confirmed In accordance with the terms of the following documentation.</p> <ol style="list-style-type: none"> 1. Type approved in accordance with the provisions of regulation V/19-1 and the Revised performance standards (MSC.263(84)); or 2. Certified as meeting the requirements of regulation IV/14 and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1 of MSC.1/Circ.1257; 3. Certified as meeting the requirements of IEC 60945 (2002-08) and IEC 60945 Corr.1 (2008-04) and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1 of MSC.1/Circ.1257. <p>Note: The Performance Test Report to be provided by an Application Service Provider (ASP) , approved by the Marshall Islands Flag Authority.</p>		
Rectification (Full)	<p>It was verified that the installed LRIT on boards has meet all the requirements as noted above in Items # 1-3.</p>		



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1538 Vessel

Opened In Report	CDC_SLR_LRIT_171496 - CDC_SLR_LRIT	05-May-2009	Houston, TX
Closed In Report	MC1722260_B - Survey for Compliance - Statutory	13-Sep-2009	Morgan City, LA
Due By	28-Feb-2010	Additional Requirements	Closed

Found

Recommendation

The 2006 Amendments to SOLAS Chapter V as contained in resolution MSC.202(81) enter into force on 1 January 2009. These amendments introduced the requirement for all cargo and passenger ships to be fitted with a system that can transmit long range identification and tracking (LRIT) information.

The LRIT system is to:

- 1) Automatically transmit the identity of the ship, the position of the ship (latitude and longitude), and the date and time of the position provided, at six hour intervals, while the ship is on an international voyage,
- and,
- 2) Be type approved by the Administration (approvals granted for existing GMDSS equipment under SOLAS IV/14 are acceptable)
- 3) Satisfactorily complete a conformance test carried out by an Application Service Provider (ASP) recognized by the flag State.

Application

Ships constructed on or after 31 December 2008 are to be fitted with the system by the time of delivery.

Ships constructed before 31 December 2008 and:

- 1) Operating in sea areas A1, A2, and A3, as defined in SOLAS regulations IV/2.1, are to be fitted with an LRIT system no later than the first survey of the radio installation after 31 December 2008
- 2) Operating exclusively in sea area A4, as defined in SOLAS regulations IV/2.1, are to be fitted with an LRIT system no later than the first survey of the radio installation after 1 July 2009.

Ships fitted with an automatic identification system (AIS), as defined in regulation 19.2.4, and operated exclusively within sea area A1, as defined in regulation IV/2.1.12, need not comply with the provisions of this regulation.

IMO has concluded that extensions or exemptions from compliance are prohibited.

Rectification (Full) The LRIT has been fitted and tested to the satisfaction of the attending surveyor.

1390 Main Power Distribution System

Opened In Report	MC690655_A - Initial IAPP Annex VI Survey	26-Apr-2006	Morgan City, LA
Superseded By	1542MC1722260_B	13-Sep-2009	Morgan City, LA
Due By	31-Jul-2006	Minor	Closed

Found

An Initial Marpol Annex VI Survey was commenced with an examination of the Units machinery and equipment in relation to the requirements of the Annex as follows: 1. The Wartsila 18V32LN Medium Speed Alternator prime movers were examined for compliance with the details of their Technical Files pending Approval by ABS. All parameters and components were checked on one cylinder on each of the six (6) engines and found in



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compliance with the exception of the injector nozzle tips which were found to have been substituted for items with a 350 bar rating from the original ones with a 500 bar rating. The Wartsilas were not provided with Engine International Air Pollution Prevention Certificates (EIAPPC) or an equivalent Statement of Fact. 2. The Caterpillar 3408 Crane engines were not provided with ABS approved Technical Files. The Caterpillars were not provided with Engine International Air Pollution Prevention Certificates (EIAPPC) or an equivalent Statement of Fact.

Recommendation Prior to Completion of the Initial Marpol Annex VI Survey and Issuance of a Full term International Air Pollution Prevention Certificate (IAPPC), the following items to re-examined and dealt with to the satisfaction of the attending Surveyor.

1. Confirmation of the Wartsila 18V32 LN Medium Speed alternator prime movers in compliance with Their ABS Approved Marpol Annex VI Technical Files, including the changes to the injector nozzle tip specifications.
2. Issuance of Engine International Air Pollution Prevention Certificates (EIAPPC) for each Wartsila Engine.
3. Confirmation of the Caterpillar Crane Prime Movers in accordance with their ABS Approved Technical Files and Issuance of Engine International Air Pollution Prevention Certificates (EIAPPC) for each engine.

Rectification (Partial) Verified compliance with the manufacture's technical files for the Wartsila 18V32 LN Medium speed Engines.

1542	Main Power Distribution System			
Opened In Report	MC1722260_B - Survey for Compliance - Statutory	13-Sep-2009	Morgan City, LA	
Supersedes 1390	MC690655_A	26-Apr-2006	Morgan City, LA	
Due By	Renewal Survey - MODU 2, 28-Feb-2011	Additional Requirements	Outstanding	

Found An Initial Marpol Annex VI Survey was commenced with an examination of the Units machinery and equipment in relation to the requirements of the Annex as follows: 1. The Wartsila 18V32LN Medium Speed Alternator prime movers were examined for compliance with the details of their Technical Files pending Approval by ABS. All parameters and components were checked on one cylinder on each of the six (6) engines and found in compliance with the exception of the injector nozzle tips which were found to have been substituted for items with a 350 bar rating from the original ones with a 500 bar rating. The Wartsilas were not provided with Engine International Air Pollution Prevention Certificates (EIAPPC) or an equivalent Statement of Fact. 2. The Caterpillar 3408 Crane engines were not provided with ABS approved Technical Files. The Caterpillars were not provided with Engine International Air Pollution Prevention Certificates (EIAPPC) or an equivalent Statement of Fact.

Recommendation Prior to issuing a IAPP Certificate the following in to be verified:

Confirmation of the Caterpillar Crane Prime Movers in accordance with their ABS Approved Technical Files



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and Issuance of Engine International Air Pollution Prevention Certificates (EIAPPC) for each engine.

Rectification
