

SCHAHIN NO.1

# INSPECTION & TEST PLAN (ITP)

DOC. NO.: NONE

## DOCUMENT DETAILS & ISSUE RECORD

Project No.: H-193			Doc. No.: None		
Rev	Date	Document Status	Prepared by	Reviewed by	Approved by
0	06/13/08	Issued for Review	KKL	CHL	JYK

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## 1. GENERAL

### 1.1 Introduction

This Inspection and Test Plan (ITP) defined as the general procedure of the inspection and test items shall be witnessed by the Owner's representatives and/or the Classification Survey (hereinafter called as "Owner's and/or Class Surveyor") during testing of SCHAHIN NO.1

### 1.2 Inspection and Test

All necessary inspections shall be carried out in accordance with the Contract, specification and this procedure where are applicable.

In principle, inspections shall be carried out by the Builder in accordance with the Builder's working schedule. The due notice of all inspections listed in this procedure shall be given to the Owner and Class Surveyor.

### 1.3 Inspection Scope

The scope of inspection and test items has been listed in this procedure in accordance with the rules and the construction specification as follows,

- Miscellaneous Platform Equipment
- Machinery Main Component
- Piping Installation
- Electrical Installation
- Instrumentation & Communication Equipment

### 1.4 Notice for Inspection and Test

Two (2) sheets of the daily application for inspection and test items in this document shall be submitted to the site office of the Owner's and Class Surveyor in YRS shipyard. One (1) copy for inspection results should be sent back to YRS's QA/QC Department (hereinafter called "QA/QC") by 09:00 o'clock in the next morning.

### **Submission of Inspection Notification by e-mail.**

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- On Weekdays: At 16:30 o'clock for inspection of the next day
- On Sunday: Friday at 16:00 o'clock for inspection of Sunday

#### 1.5 Inspection Cancellation, Postponement and Nonattendance

If for any reason, the inspection schedule is cancelled or postponed, the Builder shall inform the Owner and the Class Surveyor in advance. If the Owner or/and Class Surveyor fails to attend inspections, he shall be deemed to have waived his rights and shall accept the results of inspection performed by YRS QA/QC.

#### 1.6 Presentation of Comments

The results of inspection and comments, if any, are to be described in the specified column on the application sheet for return to YRS QA/QC as mentioned above 1.4. Comments during inspection may be written down on the surface of defective part with blue chalk or similar method.

#### 1.7 Judgment of Inspection Result

After the completion of inspection, the Owner and the Class Surveyor shall clearly judge the result of inspection to attendance such as QA/QC inspector. Besides, he is required to fill up the result of inspection, which is classified with 3 grades into designated column on application sheet as follows;

**A:** Acceptance. In case of no comments after inspection/witness and In case there are some minor defects that do not affect final integrity of the project, the inspection / witness comments should be confirmed by the QA/QC inspector and Owner and/or Class may mark as "QAC"( QA/QC confirm items) on the application sheet if necessary. But If the Owner and/or the Class require to confirm them after completion, they should mark as "OCC" (Owner or Class confirm items) on the application sheet and then QA/QC shall inform the Owner and/or the Class surveyor the status of completion and the location of the block to make them to be closed without new application.

**C:** Cancellation by YRS due to not ready for the inspection/ witness, another process interference and weather condition. The application for the inspection/ witness shall be controlled by YRS QA/QC.

**R:** Rejection due to major quality problem and/or significant quantity of defects in general poor

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workmanship. The application for the re-inspection/witness shall be controlled by YRS QA/QC after repair of the defects and/or settle the problem with application on the sheet.

## 1.8 Legend

- A - Approval of Owner and/or QA/QC, Class
- M - Monitoring (Direct or indirect random check by monitoring the activity as required/ No application shall be given for monitoring)
- I - Inspection (Verification to confirm if work confirms to project requirements)
- R - Review of Document and/or Records (Company representative will review the reports of activities furnished by QA/QC)
- W - A verification that permits the observance of inspection or performance of a work activity at frequency as deemed necessary to ensure work conformance. (Advance Notice by YRS shall be given to Owner & Class Surveyor for witness. If witness is not attended by Owner, YRS will proceed with the work as scheduled)

## 2. DEFINITIONS AND ADDREVIATIONS

### 2.1 Definitions

- Owner : BAERFIELD DRILLING LLC
- Class : ABS (American Bureau of Shipping)

### 2.2 Abbreviations

A	Approval	Misce.	Miscellaneous
GA	General Arrangement Drawing	HV	High Voltage
OSD	Over Short Damage Report	IEC	International Electro Technical Commission
N/A	Not Applicable	INSP.	Inspection
R	Review of Document and/or Records	INST'	Installation
DWG	Drawing	LV	Low Voltage
M	Monitoring	YRS	Yantai Raffles Shipyard
NACE	National Association for Corrosion Engineers	NMD	Norwegian Maritime Directorate
R&D	Welding Research & Development	ABS	American Bureau of Shipping

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Q	YRS QA/QC	MCR	Machanical Completion Record
ASTM	American Society for Testing metals	W	Witness

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### 3. MISCELLANEOUS PLATFORM EQUIPMENNNT

#### 3.1 Anchoring, Mooring & Towing Equipment

Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
				LCO	QC			
Mooring Winches	Installation and Commissioning	<ul style="list-style-type: none"> <li>- Contract Specification</li> <li>- Applicable NMD Rules and Regulations</li> <li>- ABS Offshore Rule</li> </ul>	MC Check Sheet	I	W	W	W	

#### 3.2 Cleaning Equipment and Garbage Chutes

Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
				LCO	QC			
High Pressure Wash Down System	Installation and Commissioning	<ul style="list-style-type: none"> <li>- Contract Specification</li> <li>- Applicable NMD Rules and Regulations</li> <li>- ABS Offshore Rule</li> </ul>	MC Check Sheet	I	W	W	N/A	

#### 3.3 Life Saving Equipment

Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
				LCO	QC			
Life Boats & Life Boat Davit	Installation and Commissioning	<ul style="list-style-type: none"> <li>- Contract Specification</li> <li>- Applicable NMD Rules and Regulations</li> <li>- ABS Offshore Rule</li> </ul>	MC Check sheet	I	W	W	W	

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#### 4. MACHINERY MAIN COMPONENTS

No.	Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
					LCO	QC			
1	- Installation of Equipment - Alignment of Equipment	Installation Inspection Leveling & Alignment Check	- Contract Specification - ABS Rule	MC Check Sheet	I	W	W	M	
2	Final Inspection			MC Check Sheet	I	W	W	W	

#### 5. PIPING INSTALLATION

No	Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
					LCO	QC			
1	Hydro/Leak Testing	Line Inspection	- Approve P&ID - GA Drawings - Test Procedure - ABS	MC Check Sheet	I	W	W*/M	W*/M	W* Class I/II & Drilling System
		Cleaning & Flushing			I	W	W	W	
		Hydro Testing			I	W	W*/R	W/R	
		Re-Instatement			I	W	W*/M	W*/M	



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No.	Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
					LCO	QC			
1	<ul style="list-style-type: none"> <li>- Installation &amp; Alignment of Equipment</li> </ul> <b>Electrical Power Supply</b> <ul style="list-style-type: none"> <li>- Generators/Alternators</li> <li>- Transformers</li> <li>- UPS Batteries and Charging Devices</li> <li>- Converters &amp; Rectifiers</li> </ul> <b>Electrical Distribution Common Systems</b> <ul style="list-style-type: none"> <li>- Main Switch Boards</li> <li>- Emergency Switchboards</li> <li>- Group Starters</li> <li>- Local starters</li> <li>- Distribution Panels and Boards-Motors</li> </ul> <b>Integrated Control &amp; Monitoring System</b> <ul style="list-style-type: none"> <li>- Communication Equipment</li> <li>- Nautical Equipment</li> <li>- Radio Equipment</li> <li>- Navigational Equipment</li> <li>- Dynamic Positioning System</li> </ul>	Installation Inspection Commissioning	<ul style="list-style-type: none"> <li>- Contact Specification</li> <li>- Applicable ABS Rule</li> </ul>	MC Check Sheet	I	W	W	W	

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No.	Item	Characteristics to be Verified	Acceptance Criteria	Quality Record	YRS		Owner	Class	Remark
					LCO	QC			
2	Electrical cable Installation	Installation Inspection	- Contact Specification - Applicable ABS Rule	MC Check Sheet	I	M	M	M	
		Megger Checks			I	W	M/W	M	
3	Installation of Bus Ducts & Terminations	Installation Inspection	- Contract Specifications - Applicable ABS Rule	Inspection Report	I	W/M	M	N/A	
		Insulation Resistance Test		Test Report	I	W	W		
4	Lighting & Fixtures	Installation	- Contract Specifications - Applicable ABS Rule	MC Sheet	I	W	W	N/A	

## 7. INSTRUMENTATION & COMMUNICATION EQUIPMENT

No.	Item	Characteristics to be Verified	Acceptance criteria	Quality Record	YRS		Owner	Class	Remark
					LCO	QC			
1	Instrument Cable Installation	Continuity Test	- Contract Specifications - Applicable ABS Rule	MC Sheet	I	W	M/W	M	
		Loop Checking		MC Sheet	I	W	M/W	M	
2	Instrument & Tubing	Calibration Test		Calib. Report	I	W	M/W	M	
		Leak Test		MC Sheet	I	W	M/W	M	