



OCS owned air receiver tank in the machine shop is used for the air supply through the air pipe in the shop for in house maintenance purposes. It is also a support equipment for the pre commissioning services especially for dewatering and drying operations as well as the post trenching operations

The specifications of Air receiver tank are as below:

Air receiver tank Specifications	
Volume	3 meter cube
Working pressure	24 bar (350 psi)
Volume test pressure	28.5bar (455 psi)
Inlets / outlets	$\frac{1}{2}$ " FNPT x 1 nos 1" fnpt x 8 nos 2" fnpt x 4 nos 4" fnpt x 1 nos
Inlet / Outlet Flange	3"
Dimension	L 4000mm x ID950mm x Shell thk 12.7 x 1.72 MT
No of units	1

OCS has Equipment passports for individual Engines, Skids and Fluid Ends which must be reviewed before each project to assess the status. The equipment passport gives the working history, maintenance and certification history for Engines, Fluid Ends and Pump skids.

It is important to regularly review the list of critical spare parts of the equipment by performing the periodic maintenance.

Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.



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Report No.:	Project No.:	Report Date:	Office:
OCS-E&M-ITR-001	R1785	4th March 2012	Singapore

PRESSURE TEST REPORT

General Scope of Activity:

Perform Pressure Test on 1 unit Air Receiver Tank

Date of Activity: 4th March 2012

Component Description:

3 cubic meter; 350psi
(Dimension : approx. L 4000mm x ID 950mm x shell thk 12.7mm)

Results:

Meet requirements:
Subject to conditions:
Does not meet req'ts:

This is to certify that we, Offshore Construction Specialists Pte Ltd, did an in-house pressure test at our equipment storage area located at 71 Tuas Bay Drive (KTL Offshore) on the 4th of March 2012.

1.0 Scope of Activity

Perform pressure test on Air Receiver Tank

2.0 Details

1. Description:

Item: 3 cubic meter Air Receiver Tank
Job: Pressure Test
Unit No.
Quantity: 1 unit
Test Pressure: 455 psi
Holding Time:

2. The item mentioned above was pressure tested at the presence of the undersigned at test pressure mentioned above in ambient temperature for minimum 1/2-hour holding time. Visual examination was carried out with no detected leakage or distortion.
3. Upon the completion of the pressure test, 50% Magnetic Particle Inspection (MPI) on the weldments and 100% MPI on all padeyes, were conducted by KTL Offshore. No relevant indications were detected during the time of examination.
4. The test pressure gauge calibration certificates were verified and found to be in order.
5. Identification of Instrumentations:
Pressure Gauge: OCS-INT-PG-00X (see attachment for calibration certificate)
6. Attachments:
 - a. Photos of Testing proper
 - b. Pressure Gauge Certificate of Calibration
 - c. MPI Report - KTL Offshore

Prepared by:

Engineer In-Charge:

Report no.	Project no.	Report date:	Office:
09-22585-SG		07 September 2009	Singapore

Third Party Inspection Report

General scope of activity: Witness Hydrostatic Test	Dates of all related activity: 07 September 2009
Client: Company name: PT. TIMAS SUPLINDO HESS Ujung Pangkah Installation & Flowlines (EPCI) Project Contact(s): Ms Karika Tel: +65 65679580 ext 213, Fax: +65 65678082	Manufacture: Company name: S&W Heat Exchanger (S) Pte Ltd Address: 17 Gul Way, Singapore 629194
Component description(s): Air Volume Tank – 1 unit Job No.: SWH0900123	Results: Meets requirements <input checked="" type="checkbox"/> Subject to condition(s) noted <input type="checkbox"/> Does not meet requirements <input type="checkbox"/>

This is to certify that the undersigned did at the request of PT TIMAS SUPLINDO, attended at S&W Heat Exchanger (S) Pte Ltd located at 17 Gul Way, Singapore 629194, on 07 September 2009 in order to carry out the service described below.

1.0 Scope of service activity:

Witness the Hydrostatic test detailed as below.
Issue third party inspection report.

2.0 Details:

Description of component	Tag No.	Hydrostatic Test		Test Result
		Test Pressure	Holding Time	
Air Volume Tank – One unit Job No.: SWH0900123	SWH 0900123	32 bar (Actual)	1 hour	No leak

Calibration of pressure gauge and pressure recorder are verified and found satisfactory.

3.0 Conclusion:

No sign of any leakage or deformation was observed during and after the test. The results of the above mentioned hydrostatic test was satisfactory.

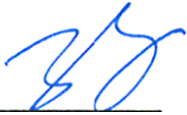
4.0 Attachment:

None

This Report is granted subject to the condition that it is understood and agreed that nothing herein contained shall be deemed to relieve any designer, manufacturer, seller, supplier, repairer or operator of any warranty, express or implied and the liability of ABSG Consulting Inc. (hereinafter referred to as ABS Consulting) shall be limited to the acts or omissions of its employees, agents or subcontractors. Under no circumstances whatsoever shall ABS Consulting be liable for any injury or damage to any person or property occurring by reason of negligent operation or any defect in materials, machinery, equipment or other items other than such defects ascertainable by normally accepted testing standards and only upon those items actually inspected by ABS Consulting and which are covered by this Report.

Report no.	Project no.	Report date:	Office:
09-22585-SG		07 September 2009	Singapore

Report prepared and submitted without prejudice. This report reflects our findings at the time and place indicated and does not refer to any other matters.



Zhang Jianhua (Jason)
Senior Technical Representative
ABSG Consulting Inc

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