

Subsurface

UT Test: Required Not Required RT Test: Required Not Required

Part No/Rev: P4000006890/B Quantity: 2 PCS PSL: 3
Part Description: Handling Tool Assy., F/XMAS Tree, 13-5/8 TORUS III, 50 Tonnes
Traceability No: 1202/2.1/3 → 1202/1.1/1
Serial No: 2004-12-003D → 2004-12-002D

Magnetic Particle Inspection (MPI)

Not Required Per DBI

Engineering Spec : Q01114 Rev : M Material Spec. M20408/I
Surface Conditions: M/C Finished Rough Cut M/C Weld Surface
Method : Continuous Wet Continuous Wet Fluorescent
Current : HVDC 230 Volt AC Circle kiloAmps/Turns: N.A
Technique : A/C Yoke Y-5 Yoke Leg Length: 2"-4"
S/No. 43558 Black Light FC-100
 M530 Coil System (S/No. 870605) MP2000 Coil System (S/No. 200611124)

Contrast Medium: Magnaflux WCP-2 Required Not Required
Testing Medium: Magnaflux 7HF (BI) Magnaflux 14AM (FI)
Demagnetized : A/C Current Required Not Required

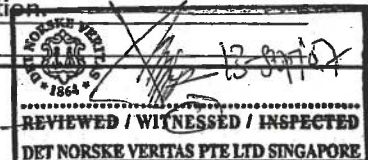
MPI ON ALL ACCESSIBLE SURFACES MPI ON OVERCUT SURFACES
 MPI ON ALL ACCESSIBLE WETTED AND SEALING SURFACES
 MPI ON LICENSEE THREAD MPI ON WELDMENT
 AS PER NCR: MPI ON PAD EYE AREA

Findings : **No apparent indication were detected during the time of inspection.**
Results : Item were found to comply as per the Specification.

Examiner/Signature : QUEK.G.W
NDE Level II
Date: 13-9-2007



Customer/Witness :
Date:



Liquid Penetrant Inspection (LP)

Not Required Per DBI

Engineering Spec : Rev : Material Spec.
Surface Conditions : M/C Finished Weld Surface Rough M/C
Method: Visible Fluorescent
Penetrant Type : Water Washable Solvent Removable Dwell Time : 15 Mins
 Zyglo ZL-60D (FP) Visible SKL-SP1 (RP)
 Zyglo ZL-27A/ZL-60D (FP)
Cleaner/Remover: Solvent Removable (Magnaflux SKC-S2) Black Light FC-104
Developer Type : Non Aqueous Wet (SKD-S2) Developer Time : 10 Mins

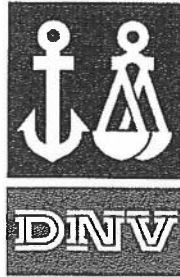
PT ON ALL ACCESSIBLE SURFACES PT ON WELD INLAY SURFACES
 PT ON LICENSEE THREAD PT ON WELDMENT
 AS PER NCR: PT PRIOR TO HARDFACING

Findings :
Results :

Examiner/Signature :
NDE Level II
Date:

Customer/Witness :
Date:

Certificate No.: FIR20070742



INSPECTION REPORT

Client : FMC Technologies Singapore Pte Ltd.
Date of Inspection : 02 November 2007
Location of Inspection : 149 Gul Circle, Singapore 629605.
Equipment Inspected : 6 sets of one-legged wire rope slings.
DNV Project No. : 618101810

EQUIPMENT DETAILS

6 sets of 64mm dia. x 9.75mtrs long, thimble eyes galvanised wire rope slings.
Test Certificate Number: NP E8026, WLL=52 Tonne.
Part Number: P4000006210, Serial Number: 6, 7, 8, 9, 10 & 11. ✓

EXTENT OF SURVEY

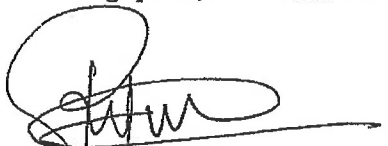
Upon request by FMC Technologies (S) Pte Ltd, DNV surveyor did attend to the work for the purpose to perform the visual inspection on the above lifting slings at their premises.


The above mentioned sling assemblies were fully laid out and visually inspected for any sign of permanent deformation, damage or other visual defects.

CONCLUSION

The six (6) sets of one-legged lifting slings were found with no excessive wear, broken wires, distortions at the time of inspection and their identification tags & test certificates by A. Noble & Son Ltd were found in order.

Singapore, 2 November 2007


Raymond Poh
Deputy Head of Section
Facilities and Inspection


Zhang Dong
Surveyor for DNV
Facilities and Inspection



CERTIFICATE NUMBER NP E8026

A Noble & Son Ltd.

A.B.N. 18 007 513 995



TESTED LIFTING GEAR & MINING EQUIPMENT SPECIALISTS

WESTERN AUSTRALIAN DIVISION

20 Clavering Road Bayswater WA 6053 PO Box 139 WA 6983 Telephone: (08) 9272 5666 Facsimile: (08) 9272 6214
Email: perthsales@nobles.com.au

CERTIFICATE OF TENSILE TEST AND EXAMINATION

QUANTITY	DISTINGUISHING MARKS	DESCRIPTION	LOAD APPLIED	WORK LOAD LIMIT
11	NPE8026 WLL52.0t P400000 ✓ 6210 1<11 FOR ONSHORE OFFSHORE TOPSIDE ONLY	64MM WIRE ROPE ASSEMBLY - 1 LEG 9.75 METRES (32FT) WIRE ROPE LEG LENGTH USING FERRULE SECURED GUSSETED THIMBLE EYES EACH END EELPS GALVANISED WIRE ROPE SAFETY TAG S/STEEL SINGLE LEG MANUFACTURED BY TESTING ESTABLISHMENT	765.2kN	52.0t

[Handwritten signature]

 20/11/06

"Where A. Noble & Son Ltd carry out proof tests on goods which are not their manufacture they are not responsible for the final integrity of the product if a proof test and careful visual inspection by a competent person does not identify any short-comings in design or manufacture."

The Goods covered by this certificate have been examined and tested in accordance with the specified requirements.

DATE OF TEST: 01/11/2006	A LOAD OF 765.2 kN WAS APPLIED
TEST SPECIFICATION: AS1666.1-1995	WHICH REPRESENTS 1.50 TIMES THE W.L.L.
OUR REFERENCE: 494026	AFTER REMOVAL OF THE LOAD, EACH ITEM WAS EXAMINED
CUSTOMER ORDER No.: 45107988 ✓	BY A COMPETENT OFFICER AND FOUND TO BE FREE FROM PERMANENT SET, FLAW OR OTHER VISUAL DEFECT, AND COMPLIES WITH THE REQUIREMENTS OF THE TEST.

TO: FMC SOUTHEAST ASIA PTE LTD
ATTENTION: ACCOUNTS PAYABLE
149 GUL CIRCLE
SINGAPORE SIN 629805



NATA Accredited Laboratory
Number: 1836

This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

[Handwritten signature]
G. FORWARD
Approved NATA Signatory

INSPECTION REPORT

Part Number : P4000006890 Rev : B Quantity : 02PCS
 Description : Handling Tool Assy., F/XMAS Tree, 13-5/8 TORUS III, 50 Tonnes
 Customer : STK PLAN Sales Order No : NA


Preparation Weld Overlay Dimension Report. Not Required
 Dimension found complied to Drawing No : _____

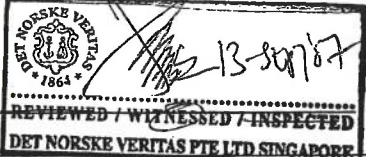
<u>Type of Inspection</u>	<u>Results</u>	<u>Reports</u>	<u>Product Specification</u>
<input checked="" type="checkbox"/> Visual	<u>Satisfactory</u>		API Spec : <u>see GWI045</u>
<input checked="" type="checkbox"/> Dimensional	<u>Satisfactory</u>	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	PSL : <u>3</u>

Hardness Test : Required Not Required
 Material Spec : M20408 Rev I Hardness Range : _____
 Engineering Spec : _____ Rev _____ Hardness Scale : _____

Heat No/ SQ No	SAP Serial No.	Heat No/ SQ No	SAP Serial No.
1202/2.1/3	2004-12-003D		
→ 1202/1.1/1	2004-12-002D		

Results : Satisfactory

Examiner/Signature : QUEK .G.W
 Date: 13/9/2007


Customer/Witness :
 Date: _____

 REVIEWED / WITNESSED / INSPECTED
 DET NORSE VERITAS PTE LTD SINGAPORE

Consigned to:

WOODSIDE MAURITANIA PTY LTD
Zone des Ambassades
#031- Office 122
Nouakchott, P. O. Box : 2034
MAURITANIE
MAURETANIA

Assembly/Shipping worklist

Print Date : Oct 22, 2007
Planned GI Date: Nov 13, 2007
Our Del. No. : 80283621
Sales Order No.: SWSCHTRS06
Customer PO No.: 47041577
Customer No. : CKOS2

Customer contact person & tel. number:

Customer:

FMC KONGSBERG SUBSEA AS
PO BOX 1012
N-3601 KONGSBERG, NORWAY

Delivery Terms: FOB - SEA PORT

Means of Transport:

Forw. agent:

Bill of Lading:

Well Site:

>>>>> Internal Assembly/Shipping worklist <<<<<<

Internal Instructions :

SUBSEA TREE FOR CHINGUETTI 2 PRJ
SHIPPING MARKS

DESC : SUBSEA TREE FOR CHINGUETTI 2 PRJ

PKG NO. _ OF _

SIZE : _ CM x _ CM x _ CM

GWT : _ KGS

NWT : _ KGS

ATTN:

SHIPPING NOTES

PLEASE CONTACT (TBA)

FOR COLLECTION

BOXING NOTE

CERTIFICATION OF FUMIGATION IS
REQ'D FOR WOODEN CASE PACKAGES
THE USE OF POLYSTYRENE BEADS,
HAY OR STRAW AS A PACKAGING
MEDIUM IS PROHIBITED

PACKAGING & MARKING IS TO
FOLLOW FMC DOCUMENT NO.WEN-014
PLS WORK WITH ANDY SU ON
THE DETAILS.

QA/QC NOTE

Correspondance and Remit to:

FMC Technologies Singapore Pte Ltd
149 Gul Circle
Singapore 629605

Phone:(+65) 6861 3011 Fax:(+65) 6861 2012

GST REG.NO: M2-0021657-1

COMPANY REG.NO: 197500778H

Company Code GSEA Sales Org FRS Code EWB2

Bank details:

Bank of America, London branch
Account: 6008-2600 3012 USD
Swift code: BOFAGB22
IBAN code: GB94 BOFA 1650 5026 0030 12
Bank of America, Singapore branch
Account: 500-78-017 SGD
Swift code: BOFASG2X

IN ACCORDANCE TO QCC 305
QA/QC DOCS REQ'D IF APPLICABLE

Item	Material	Description	(Plant GSEA)	Quantity	Weight
000010	P4000005870	TUBING HANGER ASSY, DUAL BORE, F/ 18 3/4 OD, EVXT-DB, 5 X 2-10K, 1 HYD,DOWNHOLE LINE, 5 HYD & 2 ELEC BLANKED, HH TRIM W/ PUP JOINT. SERIALIZED		1 EA	2.673,00 LB 8
000020	P4000005982	EVXT-DB ASSY, 5 1/8 X 2 1/16-10K, 18 3/4 TORUS IV 10K BTM X 13 5/8 TORUS III HUB TOP, WOODSIDE CHINGUETTI PHASE II (INJECTION), FULL TREE ASSY R ATED TO 5K SERIALIZED		1 EA	WTR INJ. TR #1
000040	P4000005895	COMPLETION GUIDE BASE ASSY, TOP ASSY, WATER/GAS INJECTION, 5 1/8-10K GATE VALVE W/5-10K VERTICAL TORUS II & ROVCON MK I FLOWLINE HUB, TOP LEVELASSY (CHINGUETTI PHASE II INJECTION) SERIALIZED		1 EA	45.710,00 LB FLWRSS INJ. #1
000050	P4000008419	GUIDEPOST ASSY, 8.625 OD X 226.57 LG Bin location(s) with stock onhand: 101-T-2 SERIALIZED		1 EA	1.541,00 LB
000060	P4000008418	GUIDEPOST ASSY, 8.625 OD X 202.57 LG Bin location(s) with stock onhand: 101-T-2 SERIALIZED		1 EA	1.392,00 LB

Correspondance and Remit to:
FMC Technologies Singapore Pte Ltd
149 Gul Circle
Singapore 629605
Phone:(+65) 6861 3011 Fax:(+65) 6861 2012
GST REG.NO: M2-0021657-1
COMPANY REG.NO: 197500778H
Company Code GSEA Sales Org FRS Code EWB2

Bank details:
Bank of America, London branch
Account: 6008-2600 3012 USD
Swift code: BOFAGB22
IBAN code: GB94 BOFA 1650 5026 0030 12
Bank of America, Singapore branch
Account: 500-78-017 SGD
Swift code: BOFASG2X

**CERTIFICATE OF
COMPLIANCE
FOR LIFTED EQUIPMENT**


CCLE NO: 07/058/CH2

REV: 1

PART 1 – EQUIPMENT AND DESIGN INFORMATION

EQUIPMENT DETAILS				
Equipment Type Injection Flowbase #2			External Dimensions 219.36" X 183.1" X 129.9"	
Equipment Description: COMPLETION GUIDE BASE ASSY, TOP ASSY, WATER/GAS INJECTION				
Tare Mass 21.239 Tonnes		Payload 21.239 Tonnes		Max. Gross Mass 25 Tonnes
Shackle WLL 55 Tonnes	Shackle Pin Diameter 70 mm	Max Angle of Slings Legs 60 Degree	Sling Leg Length 165 Inches	Min. Breaking Force 817 kN
Owner: Woodside Energy Limited		Owner's Identification Number Part no.: P4000005895/B (Top Level) Serial no.: 2007-10-0199S Part no.: P4000005143/B Serial no.: 24275-S2		Design Lift Environment: Offshore
Manufacturer's Data Report Document Reference Not available			General Arrangement Drawing Reference DU400003974 Rev. B	
Fabricator: FMC Technologies Singapore Pte Ltd			Date of Fabrication: August 2007	

GENERAL
<p>This certificate has been issued by FMC to confirm that this equipment has been designed, checked and verified in accordance with the FMC's DBI.</p> <p>The design process is managed under the FMC Quality Management System.</p>
COMPLIANCE
<p>This equipment complies with the safety critical criteria in the following requirements and regulations:</p> <ul style="list-style-type: none"> • W9000AG400 Rev: 3. • DNV No.: 2.7-1 April 2006. (Certificate Note for Offshore Containers)

DESIGN APPROVAL (prior to Certified Visual and NDT Inspections and Proof Load Testing)		
Remarks No comment.		
Date 11-December-2007	Location FMC Technologies Singapore Pte Ltd	Verifier Tan Kim Meng 
Certified Visual and NDT Inspections and Proof Load Testing to be carried out subsequent to the issue of Part 1 of this certificate of compliance.		

CERTIFICATE OF COMPLIANCE FOR LIFTED EQUIPMENT

CCLE NO: 07/058/CH2

REV: 1

PART 2 – INITIAL OR RECERTIFICATION RECORDS

CERTIFIED VISUAL INSPECTION

Visual Inspection Procedure Reference DNV 2.7-1 Section 9.2.2	Name of Inspection Company Det Norske Veritas Pte Ltd
Inspection Report Number DNV/SL/R20072190	Inspection Date 12 September 2007

VISUAL INSPECTION COMMENTS

Satisfactory (See attached reports)

CERTIFIED NDT INSPECTION (NATA ACCREDITED)

NDT Inspection Procedure Reference FMC Specification Q01116 rev. H	Name of Inspection Authority (NATA Accredited) Drilmaco Pte Ltd
Inspection Date 11 September 2007 (Before load test) 12 September 2007 (After load test)	Inspection Report No DMC/MT/0501/07 (Before load test) DMC/MT/0501-1/07 (After load test)

NDT INSPECTION COMMENTS

Surface Condition: Satisfactory

PROOF LOAD TESTING

This equipment has been subjected to the following proof load tests:

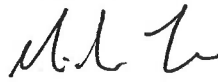
Total Test Load (4 point lift) 62.5 Tonnes	
Proof Load Testing Procedure Reference NA	Name of Testing Authority Det Norske Veritas Pte Ltd
Proof Test Cert. No. DNV/SL/R20072190	Proof Load Test Date 12 September 2007

PROOF LOAD TESTING COMMENTS

Proof load may be underslung if required, in accordance with W9000AG400.

See attached Det Norske Veritas Pte Ltd report

FINAL APPROVAL

Remarks Satisfactory		
Date 11-December-2007	Location FMC Technologies Singapore Pte Ltd	Verifier Michael Tan 





TRACEABILITY MATRIX FOR LIFTING EQUIPMENT

Lifting Equipment for : Chinguetti Injection Flowbase #02					
Top Assembly Part No.	P4000005895	Top Assembly Serial No.	2007-10-0199S		
Description: Flowbase					
Load Test Part No.	P4000005143	Serial No.	24275-S2	Load Test Cert	DNV/SL/R20072190

**DET NORSKE VERITAS PTE LTD**

Address : 10 Science Park Drive
 DNV Technology Centre
 Singapore 118224

Telephone : 6779 6363
 Facsimile : 6775 9846
 ROC : 198200541Z

Report no. : DNV/SL/R20072190
 Page no. : 1 of 7
 Date of issue : 13 September 2007

PROOF LOAD TEST OF INJECTION FLOWBASE

Job No: 24275 S2
 Checked by: *Jurd*
 Date: 13/09/07

Client: Drilmaco Pte Ltd
Date of test: 12 September 2007

Test Procedure

The proof load test was performed by Drilmaco Pte Ltd as per FMC Energy Systems, DBI part. no. P4000005143.Rev B, Pg 4 & 5. The padeye(s) was proof loaded to the specified load using calibrated jacks. The padeye(s) was tested for one load cycles. The proof load was held for 5 minutes. The load test was witnessed by DNV and visual inspection was performed after the load test.

Details of Load Measuring Device and Indicator

	<u>Jacks</u>	<u>Indicator</u>
Manufacturer:	Enerpac	Enerpac
Type:	RC-308	-
Capacity:	30 tonnes	10000 psi
Serial No:	HC-1,HC-2,HC-3 & HC-4	4130164318
Report No:	DNV/SL/C20071698,C20071699,C20071700 & C20071701	DNV/SL/C20071696

The calibration certificate(s) is attached for documentation of traceability.

Test Results

The padeye(s) was proof loaded to the required load as per FMC Energy Systems, DBI part. no. P4000005143.Rev B, Pg 4 & 5. No visual defect was apparent on the padeye(s) after the proof load test.

Component	Part no.	Padeye no.	SWL for 4-padeye(s) (tonne)	Proof load on (tonne)	
				4-padeyes	2-padeyes
Injection Flowbase (Lifting Padeyes) P4000005143-B-SN24275-S2	P4000005143 Rev.B	A,B,C,D	25.0	62.5	-
		A & C	25.0	-	37.5
		B & D	25.0	-	37.5
Component	Part no.	Padeye no.	SWL for 1-padeye(s) (tonne)	Proof load on 1-padeye (tonne)	
Injection Flowbase (Bottom Padeyes) P4000005143-B-SN24275-S2	P4000005143 Rev.B	E	15.0	37.5	
		F	15.0	37.5	

Performed by:

Richard Khoo
 Richard Khoo

Checked by:

[Signature]

Approved by:

[Signature]
 Gao Yan
 Engineer



Materials Technology and Structural Integrity
 Testing Laboratories



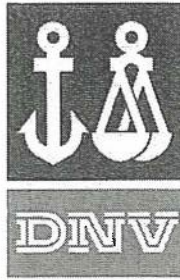
DET NORSKE VERITAS PTE LTD

Report no. : DNV/SL/R20072190
Page no. : 2 of 7
Date of issue : 12 September 2007

Calibration Certificate(s) of Jacks and Indicator

(Calibration Certificate no.DNV/SL/C20071696, Pg 3 of 7)
(Calibration Certificate no.DNV/SL/C20071698, Pg 4 of 7)
(Calibration Certificate no.DNV/SL/C20071699, Pg 5 of 7)
(Calibration Certificate no.DNV/SL/C20071700, Pg 6 of 7)
(Calibration Certificate no.DNV/SL/C20071701, Pg 7 of 7)

Certificate No: FIR20070615



SURVEY REPORT (Visual Inspection & Witness of NDE-MPI)

Client : FMC Technologies Singapore Pte Ltd
Customer : Woodside Energy Ltd
Date of Inspection : 13 September 2007
Location of Inspection : 149 Gul Circle, Singapore 629605
Equipment Inspected : Two units of Xmas Tree Handling Tool - INNER BODY
DNV Project No. : 618101741

EQUIPMENT DETAILS

Description: Xmas Tree Handling Tool - INNER BODY

Serial No.: 2004-12-002D (1202/1.1/1) & 2004-12-003D (1202/2.1/3)

Existing Part No: P212676/B & P212676/B

NEW Part No.: P4000006890/B & P4000006890/B

EXTENT OF SURVEY


Upon request by FMC Technologies Singapore Pte Ltd, DNV surveyor did attend to the work for the purpose to visual inspection & witness MPI at their premises.


The above mentioned equipments and lifting pad eyes were visually and MPI inspected.

CONCLUSION

Revised part numbering for both pieces of above mentioned equipments were attached and verified. Visual inspection found no significant deformation on the bodies. Lifting pad eyes were MPI tested and found satisfactory.

Singapore, 13 September 2007


Yeo Ngak Tong
Head of Section
Facilities and Inspection


f Danny Goh
Surveyor for DNV
Facilities and Inspection



Issued to: Howco Whitham Plc T/A Howco CCI Drybridge Park Shewalton Road Irvine Ayrshire	Location of equipment: L B T Works	Issued by: Lloyds British Testing plc Unit 4 Apex 1 Tannochside Park Glasgow G71 5PD Tel: 01698 812811 Fax: 01698 813811
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Report no:	221300917/001
Your Order no:	HCC001087
Our Job no:	221300917/WT
Sheet no:	1 of 1

Report of Test and Thorough Examination of Lifting Plant and Equipment / Declaration of EC Conformity

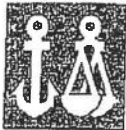
This report complies with the requirements of the Lifting Operations and Lifting Equipment Regulations 1998, SI 2307 and the Supply of Machinery (Safety) Regulations 1982

Identification Mark of the Equipment:	Description of Equipment	Details of Test and Thorough Examination			Date of Test and Examination:
		City Tested and Examined:	Sale Working Load: (Specify Units)	Proof Load Applied: (Specify Units)	
1202/1.1/1	INNER BODY	4	50t	125t	24/10/04
1202/2.1/1	FIXMAS TREE HANDLING TOOL				
1202/2.1/2	PT NO P204487-2051 REV D				
1202/2.1/3	DRG NO 1048DU2008936 TO DNV 2.7-1				
					load test carried out at lloyds glasgow in accordance with drg no. 1048du2008936 pt.no p204487-2051 rev d

The above equipment has been thoroughly examined, no defects found and is safe to operate

Name and address of person authenticating and signing this report on behalf of author: ELAINE LYNCH Position: Q.A.
 Signature: [Signature] Date of Report: 24/10/04



**DET NORSKE VERITAS PTE LTD**

ROC : 198200541Z
 Address : 10 Science Park Drive
 DNV Technology Centre
 Singapore 118224

Telephone : 6779 6363
 Facsimile : 6775 9846



Report number
 Date of issue
 Page number

DNV/SLC20071696
 11 July 2007
 1 of 1

CERTIFICATE OF CALIBRATION

This calibration is performed in accordance with BS EN 837 : 1998, clause 10.2 using an oil-operated Budenberg dead-weight tester model 380H, tester serial no. 22333, piston no. P371. The unit carries a test report no. MM007855 dated 14/05/2003 from National Metrology Centre of SPRING Singapore and is traceable to national reference standards.

Client : Drilmaco Pte Ltd
 : 19, Tuas Avenue 4,
 : Singapore 639369
 :
 :
 Manufacturer : Enerpac
 Serial number : 4130164318
 Maximum scale value : 10000 psi
 Smallest scale division : 200 psi
 Readability : 40 psi
 Outside diameter of case : 100 mm
 Ambient temperature : 20.8 deg C
 Relative humidity : 55 +/- 10 % r.h.
 Auxiliary device (Maximum indicator) : No
 Range of dead-weight tester used : High
 Adjustment made to pressure gauge : No
 Medium used : Oil

Actual pressure in bars	Actual * pressure in psi	Up-scale reading in psi				Down-scale reading in psi				Error in % of span		
		(1)	(2)	(3)	Average	(1)	(2)	(3)	Average	Up-scale reading	Down-scale reading	Hysteresis
0	0.00	0	0	0	0.0	0	0	0	0.0	0.00	0.00	0.00
70	1012.57	1040	1040	1040	1040.0	1040	1040	1040	1040.0	0.27	0.27	0.00
200	2893.04	2920	2920	2920	2920.0	2920	2920	2920	2920.0	0.27	0.27	0.00
350	5062.83	5080	5080	5080	5080.0	5080	5080	5080	5080.0	0.17	0.17	0.00
490	7087.96	7120	7120	7120	7120.0	7120	7120	7120	7120.0	0.32	0.32	0.00
630	9113.09	9120	9120	9120	9120.0	9120	9120	9120	9120.0	0.07	0.07	0.00
690	9981.00	10000	10000	10000	10000.0	10000	10000	10000	10000.0	0.19	0.19	0.00

* Corrected for g only.

The estimated expanded uncertainties associated with these pressures are within +/- 0.46 % of span at a confidence level of approximately 95% with a coverage factor of k = 1.98

This gauge satisfies accuracy class : 1.0
 Maximum permissible error : Reading +/- 1 % , Hysteresis 1 %
 Date of calibration : 11 July 2007
 Performed by : Yeo Kai Xiang

Checked by :

Approved by :

 Gao Yan
 Engineer
 Materials Technology and
 Structural Integrity Testing Laboratories

PGDWT (02/2007)

This laboratory is accredited by the Singapore Accreditation Council-Singapore Laboratory Accreditation Scheme (SAC-SINGLAS). The results reported herein have been performed in accordance with the laboratory's terms of accreditation under SAC-SINGLAS. This report shall not be reproduced, except in full, without the written approval of the laboratory.

**DET NORSKE VERITAS PTE LTD**

ROC : 198200541Z
 Address : 10 Science Park Drive,
 DNV Technology Centre
 Singapore 118224

Telephone : 6779 6363
 Facsimile : 6775 9846



Report no. DNV/SLC20071698
 Page no. 1 of 1
 Date of issue 12 July 2007

CERTIFICATE OF CALIBRATION

This calibration of the force measuring system is performed in accordance with Det Norske Veritas' calibration procedure QAD-SL-10, written with reference to ISO 7500-1:1999 Part 1 standard. The reference standard used is traceable to SPRING, Singapore or CSIRO, Australia.

DETAILS OF EQUIPMENT	JACK	INDICATOR	CALBRATOR	INDICATOR
Manufacturer	Enerpac	Enerpac	HBM	FGP
Type	RC-308	-	C2	Beta-M
Serial no.	HC-1	4130164318	D43245	243071
Rated capacity	30 tonnes	10000 psi	500 kN	-
Sensitivity/Ram area	6.49 sq in	-	-	-
Smallest count	-	200 psi	-	0.0001 m/VV
Readability	-	40 psi	-	0.0001 m/VV
Ambient temperature	25.4 deg C	20.8 deg C	25.3 deg C	-
Date of calibration	12-Jul-07	11-Jul-07	22-May-2007	-
Report no.	-	DNV/SLC20071896	DNV/SLC20071297	-
Class	-	1.0	0.5 %	-

Indicated load	True load				Repeatability error (%)	Accuracy error (%)	Regressed load in tonnes	Regressed A.E. (%)
	m/VV			kN				
psi	(kN)	(1)	(2)	(3)	Average *			
1000	28.87	0.0987	0.0989	0.0985	25.03	0.41	15.34	2.62
2200	63.51	0.2400	0.2410	0.2408	60.62	0.42	4.78	6.14
4200	121.25	0.4692	0.4700	0.4698	117.84	0.17	2.90	12.00
6200	176.99	0.6980	0.7000	0.6984	175.27	0.29	2.12	17.85
8200	236.73	0.9300	0.9292	0.9307	232.90	0.16	1.64	23.71
10000	288.69	1.1343	1.1328	1.1348	283.63	0.18	1.79	28.98
R.L. in psi		0	0	0			0.17	0.21

Note : * True load has been corrected for the weights of shimming plate and reference loadcell which is 0.17 kN
 The estimated expanded uncertainties associated with these forces are within +/- 2.11% of indicated load at approximately 95 % confidence level with k = 1.96

Linear regression equation (y = a + b x) : y is in tonnes and x is in psi
 Intercept, a : -0.3064 tonnes
 Gradient, b : 0.00293
 Maximum relative error of accuracy : 2.75 %
 Maximum relative error of repeatability : 0.42 %
 Maximum relative error of zero : 0.00 %
 Maximum relative error of relative resolution : 4.00 %
 Nominal accuracy of hydraulic jack system : 3 %
 Load range : 2.6 to 29.0 tonnes
 Calibrated range : 1000 to 10000 psi (Compression)
 For pressure between 1000 and 2700 psi, readings should be made at gauge markings.
 Submitted by : Drilmaco Pte Ltd
 19, Tuas Avenue 4,
 Singapore 639369
 Yeo Kai Xiang

Calibrated by

Checked by :

Approved by :

Gao Yan
 Engineer
 Materials Technology and
 Structural Integrity Testing Laboratories

LDAD-JACK-30 rev(05/2007)



DET NORSKE VERITAS PTE LTD

ROC : 198200541Z
 Address : 10 Science Park Drive
 DNV Technology Centre
 Singapore 118224

Telephone : 6779 6363
 Facsimile : 6775 9846



Report no. DNV/SLC20071899
 Page no. 1 of 1
 Date of issue 12 July 2007

CERTIFICATE OF CALIBRATION

This calibration of the force measuring system is performed in accordance with Det Norske Veritas' calibration procedure QAD-SL-10, written with reference to ISO 7500-1:1999 Part1 standard. The reference standard used is traceable to SPRING, Singapore or CSIRO, Australia.

DETAILS OF EQUIPMENT	JACK	INDICATOR	CALBRATOR	INDICATOR
Manufacturer :	Enerpac	Enerpac	HBM	FGP
Type :	RC-308	-	C2	Beta-M
Serial no. :	HC-2	4130164318	D43245	243071
Rated capacity :	30 tonnes	10000 psi	500 kN	-
Sensitivity/Ram area :	6.49 sq in	-	-	-
Smallest count :	-	200 psi	-	-
Readability :	-	40 psi	-	0.0001 mV/V
Ambient temperature :	25.4 deg C	20.8 deg C	25.3 deg C	0.0001 mV/V
Date of calibration :	12-Jul-07	11-Jul-07	22-May-2007	-
Report no. :	-	DNV/SLC20071696	DNV/SLC20071297	-
Class :	-	1.0	0.5 %	-

Indicated load	True load				Repeatability error (%)	Accuracy error (%)	Regressed load in tonnes	Regressed A.E. (%)	
	mV/V			kN					
psi	(kN)	(1)	(2)	(3)	Average *				
1000	28.87	0.0948	0.0950	0.0949	24.08	0.21	19.91	2.49	1.33
2200	63.51	0.2334	0.2348	0.2339	58.97	0.60	7.70	6.00	-0.25
4200	121.25	0.4646	0.4628	0.4634	116.31	0.39	4.25	11.85	-0.11
6200	178.99	0.6910	0.6899	0.6908	173.22	0.16	3.33	17.70	0.20
8200	236.73	0.9261	0.9269	0.9267	232.05	0.09	2.02	23.55	-0.49
10000	288.69	1.1264	1.1262	1.1263	281.72	0.02	2.47	28.61	0.30
R.I. in psi		0	0	0					

Note : * True load has been corrected for the weights of shimming plate and reference loadcell which is 0.17 kN
 The estimated expanded uncertainties associated with these forces are within +/- 2.12% of indicated load at approximately 85 % confidence level with k = 1.96

Linear regression equation (y = a + b x) : y is in tonnes and x is in psi
 Intercept, a : -0.4371 tonnes
 Gradient, b : 0.00293

Maximum relative error of accuracy : 1.33 %
 Maximum relative error of repeatability : 0.60 %
 Maximum relative error of zero : 0.00 %
 Maximum relative error of relative resolution : 4.00 %
 Nominal accuracy of hydraulic jack system : 3 %
 Load range : 2.5 to 28.8 tonnes
 Calibrated range : 1000 to 10000 psi (Compression)
 For pressure between 1000 and 2700 psi, readings should be made at gauge markings.

Submitted by : Drilmaco Pte Ltd
 19, Tuas Avenue 4,
 Singapore 639369
 Yeo Kai Xiang

Calibrated by :

Checked by :

Approved by :

Gao Yan
 Engineer
 Materials Technology and
 Structural Integrity Testing Laboratories

LOAD-JACK-30 ton(05/2007)



DET NORSKE VERITAS PTE LTD

ROC : 198200541Z
 Address : 10 Science Park Drive
 DNV Technology Centre
 Singapore 118224
 Telephone : 6779 6363
 Facsimile : 6775 9846



Report no. DNVSLC20071701
 Page no. 1 of 1
 Date of issue 12 July 2007

CERTIFICATE OF CALIBRATION

This calibration of the force measuring system is performed in accordance with Det Norske Veritas' calibration procedure QAD-SL-10, written with reference to ISO 7500-1:1999 Part1 standard. The reference standard used is traceable to SPRING, Singapore or CSIRO, Australia.

DETAILS OF EQUIPMENT	JACK	INDICATOR	CALIBRATOR	INDICATOR
Manufacturer	Enerpac	Enerpac	HBM	FGP
Type	RC-308	-	C2	Beta-M
Serial no.	HC-3	4130164318	D43245	243071
Rated capacity	30 tonnes	10000 psi	500 kN	-
Sensitivity/Ram area	6.49 sq in	-	-	-
Smallest count	-	200 psi	-	0.0001 mV/V
Readability	-	40 psi	-	0.0001 mV/V
Ambient temperature	25.4 deg C	20.8 deg C	25.3 deg C	-
Date of calibration	12-Jul-07	11-Jul-07	22-May-2007	-
Report no.	-	DNV/SLC20071696	DNV/SLC20071297	-
Class	-	1.0	0.5 %	-

Indicated load	True load				Repeatability error (%)	Accuracy error (%)	Regressed load in tonnes	Regressed A.E. (%)	
	mV/V		kN						
psi	(kN)	(1)	(2)	(3)	Average *				
1000	28.87	0.0950	0.0942	0.0948	24.02	0.85	20.20	2.49	1.55
2200	63.51	0.2303	0.2346	0.2341	58.71	1.85	8.18	5.97	-0.21
4200	121.25	0.4846	0.4609	0.4632	116.14	0.80	4.40	11.79	-0.47
6200	178.99	0.6890	0.6867	0.6878	172.53	0.33	3.74	17.60	0.03
8200	236.73	0.9184	0.9143	0.9152	229.42	0.45	3.19	23.41	0.07
10000	288.69	1.1203	1.1248	1.1238	280.89	0.40	2.78	28.64	-0.01
R.I. in psi		0	0	0	Note : R.I. = Residual Indication, A.E. = Accuracy Error				

Note : * True load has been corrected for the weights of shimming plate and reference loadcell which is 0.17 kN
 The estimated expanded uncertainties associated with these forces are within +/- 2.47% of indicated load at approximately 95 % confidence level with k = 2.03

Linear regression equation (y = a + bx) : y is in tonnes and x is in psi
 Intercept , a : -0.4188 tonnes
 Gradient , b : 0.00297

Maximum relative error of accuracy : 1.55 %
 Maximum relative error of repeatability : 1.85 %
 Maximum relative error of zero : 0.00 %
 Maximum relative error of relative resolution : 4.00 %
 Nominal accuracy of hydraulic jack system : 3 %
 Load range : 2.5 to 28.6 tonnes
 Calibrated range : 1000 to 10000 psi (Compression)
 For pressure between 1000 and 2700 psi, readings should be made at gauge markings.

Submitted by : Drilmaco Pte Ltd
 : 19, Tuas Avenue 4,
 : Singapore 639369
 Calibrated by : Yeo Kai Xiang

Checked by :

Approved by :

 Gao Yan
 Engineer
 Materials Technology and
 Structural Integrity Testing Laboratories

LOAD-JACK-30 Rev 06/2007



DET NORSKE VERITAS PTE LTD

ROC : 198200541Z
 Address : 10 Science Park Drive.
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 Facsimile : 6775 9846



Report no DNV/SL/C20071700
 Page no. 1 of 1
 Date of issue 12 July 2007

CERTIFICATE OF CALIBRATION

This calibration of the force measuring system is performed in accordance with Det Norske Veritas' calibration procedure QAD-SL-10, written with reference to ISO 7500-1:1999 Part1 standard. The reference standard used is traceable to SPRING, Singapore or CSIRO, Australia.

DETAILS OF EQUIPMENT	JACK	INDICATOR	CALIBRATOR	INDICATOR
Manufacturer	Enerpac	Enerpac	HBM	FGP
Type	RC-308	-	C2	Beta-M
Serial no.	HC-4	4130164318	D43245	243071
Rated capacity	30 tonnes	10000 psi	500 kN	-
Sensitivity/Ram area	6.49 sq in	-	-	-
Smallest count	-	200 psi	-	0.0001 mV/V
Readability	-	40 psi	-	0.0001 mV/V
Ambient temperature	25.4 deg C	20.8 deg C	25.3 deg C	-
Date of calibration	12-Jul-07	11-Jul-07	22-May-2007	-
Report no.	-	DNV/SL/C20071696	DNV/SL/C20071297	-
Class	-	1.0	0.5 %	-

Indicated load	True load				Repeatability error (%)	Accuracy error (%)	Regressed load in tonnes	Regressed A.E. (%)	
	psi	(kN)	mV/V	kN					
1000	28.87	0.0988	0.0988	0.0991	25.08	0.30	15.11	2.58	0.87
2200	63.51	0.2368	0.2398	0.2378	60.00	1.26	5.86	6.07	-0.84
4200	121.25	0.4634	0.4627	0.4628	116.15	0.15	4.39	11.88	0.29
6200	178.99	0.6918	0.6891	0.6893	173.09	0.39	3.41	17.69	0.23
8200	236.73	0.9254	0.9231	0.9218	231.27	0.39	2.36	23.50	-0.34
10000	288.69	1.1286	1.1238	1.1227	281.41	0.52	2.59	28.73	0.13
R.I. in psi	0	0	0	0	Note: R.I. = Residual Indication, A.E. = Accuracy Error				

Note: * True load has been corrected for the weights of shimming plate and reference loadcell which is 0.17 kN
 The estimated expanded uncertainties associated with these forces are within +/- 2.22% of indicated load at approximately 95 % confidence level with k = 1.96

Linear regression equation (y = a + b x) : y is in tonnes and x is in psi
 Intercept, a : -0.3263 tonnes
 Gradient, b : 0.00291

Maximum relative error of accuracy : 0.87 %
 Maximum relative error of repeatability : 1.26 %
 Maximum relative error of zero : 0.00 %
 Maximum relative error of relative resolution : 4.00 %
 Nominal accuracy of hydraulic jack system : 3 %
 Load range : 2.6 to 28.7 tonnes
 Calibrated range : 1000 to 10000 psi (Compression)
 For pressure between 1000 and 2700 psi, readings should be made at gauge markings.

Submitted by : Drilmaco Pte Ltd
 : 19, Tuas Avenue 4,
 : Singapore 639369
 Calibrated by : Yeo Kai Xiang

Checked by :

Approved by :

Gao Yan
 Engineer
 Materials Technology and
 Structural Integrity Testing Laboratories



LQAD-JACK-30 ton(16/2007)

Drilmaco Pte Ltd

19, Tuas Ave 4, Singapore - 639369
Tel: (65) 68611660 Fax : (65) 68611139

NON-DESTRUCTIVE TEST REPORT (In-House)

Report No : DMC/MT/0501/07

Date:13-Sep-07

MAGNETIC PARTICLE INSPECTION

Client : FMC Technologies, 149, Gul Circle, Singapore.

Job Ref: 24275 S2

Product / Description

Completion Guide Base Weldment, APR. F/ Injection Flowbase C/W Anodes & Machined Post Receptacles.

PN: P4000005143 Rev B , SN: 24275 - S2

Qty: 1 Unit

Procedure : Q01116.Rev H

Acceptance Criteria : Q01116.Rev H

Stage of Examination : Before Load Test

Surface Condition : Satisfactory

Scope of Examination : To detect the cracks and other discontinuities on surface or near the surface

Method : Continuous wet method

Evaluation of Indication : Discontinuity on the surface will be indicated by the retention of magnetic particles.

Magnetization technique: Yoke Type (A/C Current)

Equipment Brand : Magnaflux- Y-7 / SN.2006066

Testing Medium : Magnaflux 7HF

Lifting Capacity : 10 lbs

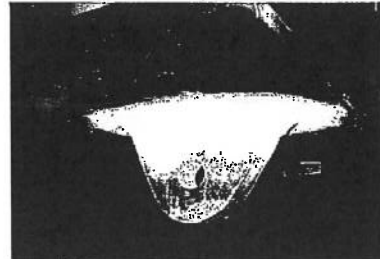
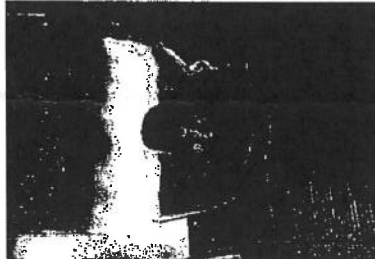
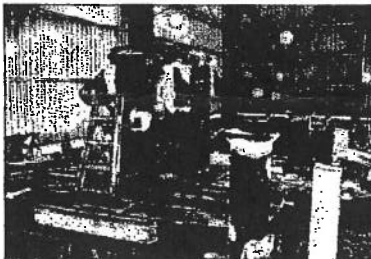
Contrast Medium :Magnaflux WCP-2

Date of Examination : 11-Sep-07

Area of Examination : MPI was carried out on all accessible attachment weldment of the part including all padeyes before load test, as per FMC Q.Spec Q00295 Rev F Cat-A , B & C , Q01116.Rev H

Findings : No rejectable discontinuities were detected on the areas examined during the examinations.

Result : Accepted in accordance with the reference criteria.



Examined By : M.Abdul Jaber (NDE Level - II)

Approved by: Eddie woo

: Project Engineer

Date : 13-Sep-07

Date : 13-Sep-07



FMC TECHNOLOGIES (S) PTE LTD
SOURCE INSPECTION
REVIEWED / ACCEPTED /
REJECTED / INSPECTED
SIVARUMAR
13/9/07

Drilmaco Pte Ltd

19, Tuas Ave 4, Singapore - 639369
Tel: (65) 68611660 Fax : (65) 68611139

NON-DESTRUCTIVE TEST REPORT (In-House)

Report No : DMC/MT/0501-1/07

Date:13-Sep-07

MAGNETIC PARTICLE INSPECTION

Client : FMC Technologies, 149, Gul Circle, Singapore.

Job Ref: 24275 S2

Product / Description

Completion Guide Base Weldment, APR. F/ Injection Flowbase C/W Anodes & Machined Post Receptacles.

PN: P4000005143 Rev B , SN: 24275 - S2

Qty: 1 Unit

Procedure : Q01116.Rev H

Acceptance Criteria : Q01116.Rev H

Stage of Examination : After Load Test

Surface Condition : Satisfactory

Scope of Examination : To detect the cracks and other discontinuities on surface or near the surface

Method : Continuous wet method

Evaluation of Indication : Discontinuity on the surface will be indicated by the retention of magnetic particles.

Magnetization technique: Yoke Type (A/C Current)

Equipment Brand : Magnaflux- Y-7 / SN.2006066

Testing Medium : Magnaflux 7HF

Lifting Capacity : 10 lbs

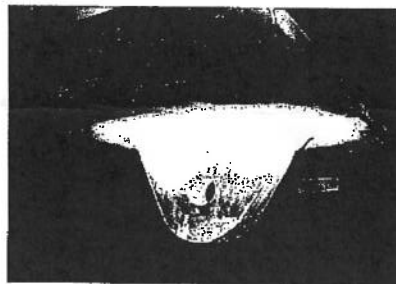
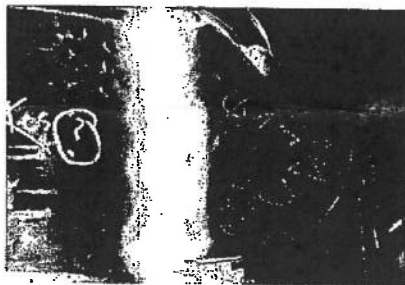
Contrast Medium :Magnaflux WCP-2

Date of Examination : 12-Sep-07

Area of Examination : MPI was carried out on all padeyes weldments of the part, after the load test as per FMC Q.Spec Q00295 Rev F Cat-A , Q01116.Rev H

Findings : No rejectable discontinuities were detected on the areas examined during the examinations.

Result : Accepted in accordance with the reference criteria.



Examined By : M.Abdul Jaber (NDE Level - II)

Approved by: Eddie woo
: Project Engineer

FMC TECHNOLOGIES (S) PTE LTD
SOURCE INSPECTION
~~REVIEWED / ACCEPTED /~~
~~REJECTED / INSPECTED~~

Date : 13-Sep-07

Date : 13-Sep-07

SIVAKUMAR
13/9/07

3376
Certificate No: FIR20070614



P4000005467

45147413 - 10/20

= 274 2



20/9/07

SURVEY REPORT (Witness of Proof Load Test)

Client : Systematic Certification And Networks
Date of Test : 14 September 2007
Location of Test : 7 Kallang Way 3, Singapore 349105
DNV Project No. : 618101740

EQUIPMENT TESTED

Two sets of 4 legged, 36mm diameter x 165" long galvanised wire-rope sling.
Both ends (m/s) thimble eyes inclusive of Q.45.B Master Link Assembly
& 4 pieces of PWB 41979 Grade S shackle pins (WLL 55 tons).
P/N: P4000005467, Marking: SCN 171-1 & -2
SWL: 27 Tons, Proof Load: 54 Tons.

EXTENT OF SURVEY

Upon request by Systematic Certification & Networks, the undersigned surveyor did attend to the work for the purpose to witness the proof load test at ATCO premises.

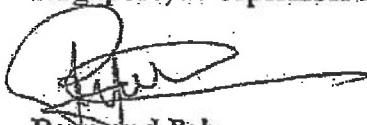
The above mentioned sling assemblies were individually mounted onto a calibrated hydraulic tensioning machine and proof loaded to 54 tons (2.0 times SWL). Each leg of the 4-legged slings was also individually proof tested to 32 tons as specified by the Client. Individual proof load test was held for 5 minutes before release.


After the load test, visual inspection was carried out on the sling assemblies to check for crack, permanent deformation or other visual defects.

CONCLUSION

The proof load tests on the above two sets of 4 legged sling assemblies were successfully carried out in accordance to AS 1666.1 - 1995 and the test results were found to be satisfactory at the time of inspection. The sling assemblies and their identification tags were hard stamped with NV Logo.

Singapore, 17 September 2007


Raymond Poh
Deputy Head of Section
Facilities and Inspection


Bobby Choo
Surveyor for DNV
Facilities and Inspection

钢材检查证明书 INSPECTION CERTIFICATE

DRILMACO PTE LTD	
MATERIAL REVIEW	
R/PN <u>Z400005143</u>	REV <u>B</u> <u>2006.03.20</u>
P/N <u>P400005143</u>	REV <u>B</u>
MSPEC <u>M11399</u>	P/D <u>451269ZL</u>
D/MC Job No <u>24275 SR</u>	
Reviewed By <u>KINGLY</u>	Date <u>2006.03.02</u>
Signature <u>[Signature]</u>	

宝钢集团上海浦东钢铁有限公司
BAOSTEEL GROUP PUDONG IRON & STEEL CO., LTD.

FMC TECHNOLOGIES (S) PTE LTD
SOURCE INSPECTION
REVIEWED / ACCEPTED /
REJECTED / INSPECTED
SIVAKUMARAN

地址: 上海浦东上海路-300号
ADDRESS: 300 SHANGHAI RD. PUDONG SHANGHAI

品种名称 NAME OF ARTICLE	船壳用结构钢板 HULL STRUCTURAL STEEL PLATES	
钢号 STEEL GRADE	AB-EH36N	尺寸规格 DIMENSIONS
技术条件 TECHNICAL CONDITION	ABS船规 ABS RULE	50.00*2438*9144mm
供货状态 SUPPLY CONDITION	正火(NORMALIZED)	证明书编号 CERTIFICATE NO.
炉种 KINDS OF FURNACE	电炉(Electric-arc furnace)	日期 DATE
		DEC 29, 2006

轧制号 ROLLING NO.	库存 STORAGE	化学成份 CHEMICAL COMPOSITION %											屈服点 Y.P.	抗拉强度 T.S.	延伸率 ELONG	冲击值 IMPACT VALUE	平均值 AVE-RAGE				
		C	Min	S	P	SI	AI	Nb	V	Cr	Ni	Cu						Mo	TI	N/mm ²	%
6B97427702	1	16	140	6	11	29	40	-	-	3	2	1	0	-	390	530	29.0	130	162	210	167

Impact Dimensions: 10*10*55 mm

We hereby certify that the material described herein has been made to the applicable specification by the above process and tested in accordance with the requirements of the American Bureau of Shipping Rules with satisfactory results. We certify that the slabs we use are from Baoshan iron and steel co.,ld

质量检查员
PERSON IN CHARGE OF QUALITY EXAMINATION
[Signature]

船舶师
SURVEYOR
[Signature]



收货单位 CONSIGNEE	To: whom it may concern		发货共数 DELIVERY PIECES	1	发货重量 DELIVERY WEIGHT	8.750 吨 TONS
提单号 BILL OF LADING NO.	6C1672	合同号 CONTRACT NO.	WHG6000333	订货单位 CUSTOMER	三钢出口	

RESEARCH & CONTROL LAB. (MECHANICAL TESTING LAB.) BHILAI STEEL PLANT
STEEL MAKERS CERTIFICATE OF MANUFACTURE & TEST RESULTS

To,
M/s TATA SOUTH-EAST ASIA LTD
CONTRACT No. SAIL/ITD/C-6294/01-02

ORIGINAL

T R No. : 8239 DATE : 07/01/2002
SPECIFICATION OF MATERIAL : DIN 17100 1980 Grade St 52.3.

(1) Mechanical Tests witnessed by :- LLOYD'S REGISTER T.D.C. : 01/24 DATE 18/12/2001
(2) Heat Treatment of plates and test specimens :- TEMP. CONTROLLED ROLLED

Process of Manufacture : BASIC OXYGEN FURNACE
CONTINUOUS CAST , FULLY KILLED

We certify that the materials as mentioned below against the respective Heat nos. have satisfied the requirements of chemical composition and/ or Mechanical Tests of the respective specifications(s), as found in the respective samples selected at random from the lot presented for inspection

TEST RESULTS

SECTION THICKNESS X DTH X LENGTH	HEAT No.	PLATE NO./ No. OF Pcs	CHEMICAL ANALYSIS (LADLE)					MECHANICAL AND OTHER TESTS				Carbon Equiv- alent		
			C	S	P	Mn	Si	N	YP	UTS	%E		UST as	CHARRY V NOTCH IMPACT TEST VALUES at -20°C in [J] [Longitudnal] 1 2 3 Avg
			%	%	%	%	%	ppm	in mm2	in mm2	GL per **			
12786			0.18	0.014	0.026	1.45	0.30	72	382 382	590 538	30 27		56 40 38 45 94 64 74 77	0.42
35.0x2438x 9144		533387/ 1												
35.0x2438x 9144		533388/ 1												
35.0x2438x 9144		533390/ 1												
35.0x2438x 9144		533391/ 1												
35.0x2438x 9144		533392/ 1												
35.0x2438x 9144		533393/ 1												
35.0x2438x 9144		533394/ 1												
35.0x2438x 9144		533395/ 1												
35.0x2438x 9144		533396/ 1												

** Up to 30 mm GL = 5.65 Sq.root Ao and above 30 mm GL= 5do (Ao -cross sectional area of specimen, do -diameter of specimen)

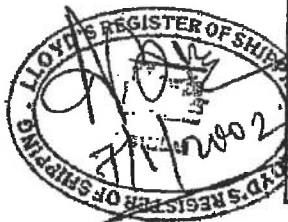
NOTE 1. Rolling tolerance as per DIN 1543 : 1981 as specified in TDC.

2. All the plate surface inspection, dimension check & verification of identification marking carried out by manufacturer. Physical test witnessed & Chemical results reviewed by Surveyor to Lloyd's Register in compliance with the above specification.
Each plate bears stamp next to Manufacturer, Heat No., Plate No., Specification.

3. This is 3.1.C Certificate as per EN 10204.

BHI 0221901/01

This Document is subject to terms and conditions of Lloyd's Register of Shipping



DRILMACO PTE LTD	
MATERIAL REVIEW	
R/PN P4000005475	REV B Item 2
R/N P4000005143	REV B
INSPEC M11799	PI 451269312 Item 6
DMC Job No 2427552	
Reviewed By K. W. G. S. L. Y.	Date 2-12-06
Signature	

for, Chief Metallurgist
Bhilai Steel Plant
SAIL
Plate Mill Testing &
& S Laboratory

FMC TECHNOLOGIES (S) PTE LTD
SOURCE INSPECTION
REVIEWED / ACCEPTED /
REJECTED / INSPECTED
SIVANUMARI
20/12/02



Items projected March 2008 delivery - (updated as at 06/May/2008)

Delivery Address : Malaysia Marine & Heavy Engineering Sdn Bhd

Item Part Number	Description	QTY	Delivery Dossier	Length (cm)	Width (cm)	Height (cm)	Weight (kg)	Box, Sld, Pallet	Shipping Packaging	Shipping Weight (KG)	Sales Order / Delivery No.	Comments
1	P4000005982 Water Injection XT Tree # 4 + loose items	1	# 02	420	380	420	35,000	S	420X380X420	37,000	80283821	loose item ref. 1.4
1.1	P4000006890 Simplified XT Handling Tool (CPI)	1	# 02	70	70	60	1,400				80310791	
1.2	P4000006210 XT Tree Lifting Sling	1	# 02								8028056	
1.3	P4000004986 ROV Tree Cap, EVXT Assy 51/8x21/61-10K (# 13)	1	# 02	117	39	61	98	B	138x58x84	135	80299048	
1.4	ref. 1 loose items	1 kit						B	158x78x72	185	ref. 1	ref. 1
1.5	100035119 SCM Assy (fix-up onto WI XT-tree # 1)	1							ref to 1		80309312	
2	P4000005982 Water Injection XT Tree # 2 + loose items	1	# 02	420	380	420	35,000				80317726	loose item ref. 2.4
2.1	P4000008498 Simplified XT Handling Tool (CPI)	1	# 02	70	70	60	1,400	S	420X380X420	37,000	80310796	
2.2	P4000006210 XT Tree Lifting Sling	1	# 02								80312251	
2.3	P4000004986 ROV Tree Cap, EVXT Assy 51/8x21/61-10K (# 17)	1	# 02	117	39	61	98	B	138x58x84	150	80321569	
2.4	ref. 2 loose items	1 kit						B	163x63x61	190	ref. 2	ref. 2
2.5	100035119 SCM Assy (fix-up onto WI XT-tree # 2)	1							ref to 2		80310800	
3	P4000005604 Production XT Tree # 4 + loose items	1	# 02	420	437	411	44,000				80299043	loose item ref. 3.4
3.1	P4000006890 Simplified XT Handling Tool (CPI)	1	# 02	70	70	60	1,400	S	420x437x411	45,000	80310794	
3.2	P4000006210 XT Tree Lifting Sling	1	# 02								80299042	
3.3	P4000004986 ROV Tree Cap, EVXT Assy 51/8x21/61-10K (# 14)	1	# 02	117	39	61	98	B	138x58x84	150	80299039	
3.4	ref. 3 loose item	1 kit						B	155x108x84	225	ref. 3	ref. 3
3.5	100035118 SCM Assy (fix-up onto XT-tree # 4)	1							ref to 3		80310799	
4	P4000005895 Flowbase Injection # 1, c/w/wh Cap & Sling	1	# 02	460	560	260	20,625	S	460x560x260	21,000	80283621	
4.1	P4000008419 Guide Post Long	1	# 02	576	Ø22		699	P	576x58x36	1660	80283621	
4.2	P4000008418 Guide Post Short	1	# 02	515	Ø22		632				80283621	
5	P4000005895 Flowbase Injection # 2, c/w/wh Cap & Sling	1	# 02	460	560	260	20,625	S	460x560x260	21,000	80302842	
5.1	P4000008419 Guide Post Long	1	# 02	576	Ø22		699	P	576x58x36	1660	80302843	
5.2	P4000008418 Guide Post Short	1	# 02	515	Ø22		632				80302844	
6	P4000005870 Water Injector Tubing Hanger Assy # 1 & # 2	2	# 02	411	Ø80		1039	2XB	@46x68x79	@1239	80283621	
7	P4000005017 Test Sump Assy for XT-Tree	1	# 02	329	329	267	9,172	S	329x329x267	12000	80299047	
											80320622	



INTEGRATED LOGISTICS

DELIVERY ORDER

MISC Integrated Logistic Sdn. Bhd. (112036-P)

GROUND FLOOR, KOMPLEKS MISC,
PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
KAWASAN PERINDUSTRIAN TEBRAU II,
81100 JOHOR BAHRU,
JOHOR DARUL TAKZIM, MALAYSIA.
TEL : 07-357 5510
FAX : 07-351 3557

D/O No. : A 69904

Date Issue : 08/05/2008

Date of Delivery : 09/05/2008

TO:- MISC INTEGRATED LOGISTIC SDN BHD.
PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
KAWASAN PERINDUSTRIAN TEBRAU II,
81100 JOHOR BAHRU.
ATTN: TELEPHONE:
DELIVERY INSTRUCTION
TIME: DATE:

Table with 4 columns: ITEM, DESCRIPTION OF GOODS, QUANTITY, AMOUNT. Contains 3 items related to sub-sea system equipment.

Table with 4 columns: Carrier / Lorry No., Your Order No., Terms, Invoice No / Date. Values: MBG9939, As above, 6/5/2008.

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.

Handwritten signature and date 08/05/08. CUSTOMER'S AUTHORIZED CHOP & SIGNATURE

Handwritten name kanna. NAME

Handwritten date 9/5/08. DATE

Table with 3 columns: PREPARED BY (KUMAR), DRIVER SIGN (signature), AUTHORIZED BY (stamp and signature).

- Original : Customer
Yellow Copy : Operation Dept.
Blue Copy : Recipient
Green Copy : File



INTEGRATED LOGISTICS

DELIVERY ORDER

MISC Integrated Logistic Sdn. Bhd. (112036-P)

GROUND FLOOR, KOMPLEKS MISC,
PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
KAWASAN PERINDUSTRIAN TEBRAU II,
81100 JOHOR BAHRU,
JOHOR DARUL TAKZIM, MALAYSIA.
TEL : 07-357 5510
FAX : 07-351 3557

D/O No. : A 69905

Date Issue : 08/05/2008

Date of Delivery : 09/05/2008

TO:- MISC INTEGRATED LOGISTIC SDN BHD <u>PLO 137 & 138, JALAN ANGKASA MAS UTAMA,</u> <u>KAWASAN PERINDUSTRIAN TEBRAU II,</u> <u>81100 JOHOR BAHRU.</u>	DELIVERY INSTRUCTION
ATTN: TELEPHONE:	TIME: DATE:

ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
	<u>EQUIPMENT FOR SUB SEA SYSTEM</u>		
1	2 PCS GUIDE POST, LONG		
2	2 PCS GUIDE, SHORT		
3	2 PCS W.I. TUBING HANGER ASSY #1,2		
SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-002			

Carrier / Lorry No.	Your Order No.	Terms	Invoice No / Date
MBG9593	As above		6/5/2008

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.

Handwritten signature and date: 8/5/08

Handwritten name: HANAWAN

Handwritten date: 9/5/08

CUSTOMER'S AUTHORISED
CHOP & SIGNATURE

NAME

DATE

PREPARED BY	DRIVER SIGN	AUTHORISED BY
KUMAR	<i>Handwritten signature</i>	<i>Handwritten signature with circular stamp: MISC INTEGRATED LOGISTICS JOHORE</i>

- Original : Customer
- Yellow Copy : Operation Dept.
- Blue Copy : Recipient
- Green Copy : File

DELIVERY ORDER



MISC Integrated Logistic Sdn. Bhd. (112036-P)
 GROUND FLOOR, KOMPLEKS MISC,
 PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
 KAWASAN PERINDUSTRIAN TEBRAU II,
 81100 JOHOR BAHRU,
 JOHOR DARUL TAKZIM, MALAYSIA.
 TEL : 07-357 5510
 FAX : 07-351 3557

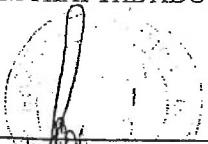
D/O No. : A 69911
 Date Issue : 10/05/2008
 Date of Delivery : 10/05/2008

TO:- MISC INTEGRATED LOGISTIC SDN BHD. PLO 137 & 138, JALAN ANGKASA MAS UTAMA, KAWASAN PERINDUSTRIAN TEBRAU II, 81100 JOHOR BAHRU.	DELIVERY INSTRUCTION
ATTN: TELEPHONE:	TIME: DATE:

ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
1	EQUIPMENT FOR SUB SEA SYSTEM 1 UNITS TEST STUMP ASSY FOR X-TREE		
SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-001			

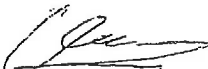

Carrier / Lorry No.	Your Order No.	Terms	Invoice No / Date
BEX3640	As above		PONO:7500049802

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.


 CUSTOMER'S AUTHORIZED CHOP & SIGNATURE

AZAHAR
 NAME

12/5/08
 DATE

PREPARED BY OTHMAN BIN HUKIMAN	DRIVER SIGN 	AUTHORIZED BY 
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Original : Customer
 Yellow Copy : Operation Dept.
 Blue Copy : Recipient
 Green Copy : File

DELIVERY ORDER



D/O No. : A 69912
Date Issue : 10/05/2008
Date of Delivery : 10/05/2008

MISC Integrated Logistic Sdn. Bhd. (112036-P)
GROUND FLOOR, KOMPLEKS MISC,
PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
KAWASAN PERINDUSTRIAN TEBRAU II,
81100 JOHOR BAHRU,
JOHOR DARUL TAKZIM, MALAYSIA.
TEL : 07-357 5510
FAX : 07-351 3557

TO:- MISC INTEGRATED LOGISTIC SDN BHD. PLO 137 & 138, JALAN ANGKASA MAS UTAMA, KAWASAN PERINDUSTRIAN TEBRAU II, S 1100 JOHOR BAHRU	DELIVERY INSTRUCTION
ATTN: TELEPHONE:	TIME: DATE:

ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
	<u>EQUIPMENT FOR SUB SEA SYSTEM</u> 1 UNITS FLOWBASE, INJECTION # 1# 2 SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-001		

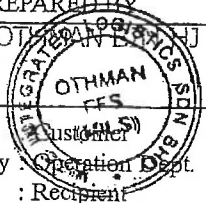
Carrier / Lorry No.	Your Order No.	Terms	Invoice No / Date
BFJ3152	As above		PONO:7500049802

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.

CUSTOMER'S AUTHORIZED CHOP & SIGNATURE _____ NAME **YA21D** DATE **10/5/08**

PREPARED BY	DRIVER SIGN	AUTHORISED BY
OTHMAN EFFENDI TUKIMAN 		

Original : Customer
Yellow Copy : Operation Dept.
Blue Copy : Recipient
Green Copy : File





INTEGRATED LOGISTICS

DELIVERY ORDER

MISC Integrated Logistic Sdn. Bhd. (112036-P)
 GROUND FLOOR, KOMPLEKS MISC,
 PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
 KAWASAN PERINDUSTRIAN TEBRAU II,
 81100 JOHOR BAHRU,
 JOHOR DARUL TAKZIM, MALAYSIA.
 TEL : 07-357 5510
 FAX : 07-351 3557

D/O No. : A 69913
 Date Issue : 10/05/2008
 Date of Delivery : 10/05/2008

TO:- MISC INTEGRATED LOGISTIC SDN BHD PLO 137 & 138, JALAN ANGKASA MAS UTAMA, KAWASAN PERINDUSTRIAN TEBRAU II, 81100 JOHOR BAHRU. ATTN: TELEPHONE:	DELIVERY INSTRUCTION <hr/> <hr/> <hr/> TIME: DATE:
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ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
	<u>EQUIPMENT FOR SUB SEA SYSTEM</u> 1 UNITS FLOWBASE, INJECTION # 1# 2 SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-001		

Carrier / Lorry No.	Your Order No.	Terms	Invoice No / Date
BFP4644	As above		PONO:7500049802

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.

CUSTOMER'S AUTHORISED
 CHOP & SIGNATURE

Amaludin Hj Kamsi
 NAME
 12/5/08
 DATE

PREPARED BY OTHMAN HJ TUKIMAN 	DRIVER SIGN 	AUTHORISED BY
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Original : Customer
 Yellow Copy : Generation Dept.
 Blue Copy : Recipient
 Green Copy : File

DELIVERY ORDER



MISC Integrated Logistic Sdn. Bhd. (112036-P)
 GROUND FLOOR, KOMPLEKS MISC,
 PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
 KAWASAN PERINDUSTRIAN TEBRAU II,
 81100 JOHOR BAHRU,
 JOHOR DARUL TAKZIM, MALAYSIA.
 TEL : 07-357 5510
 FAX : 07-351 3557

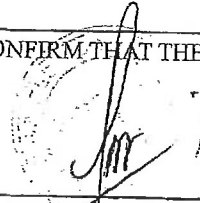
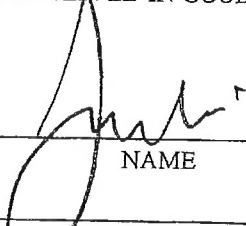
D/O No. : A 69914
 Date Issue : 10/05/2008
 Date of Delivery : 10/05/2008

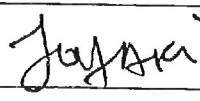

TO:- MISC INTEGRATED LOGISTIC SDN BHD. PLO 137 & 138, JALAN ANGKASA MAS UTAMA, KAWASAN PERINDUSTRIAN TEBRAU II, 81100 JOHOR BAHRU.	DELIVERY INSTRUCTION
ATTN: TELEPHONE:	TIME: DATE:

ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
	<u>EQUIPMENT FOR SUB SEA SYSTEM</u> 1 UNITS PROD, X-TREE # 4 WITH SCM, C/W ACCESSORIES SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-001		

Carrier / Lorry No.	Your Order No.	Terms	Invoice No / Date
BED6500	As above		PONO:7500049802

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.



12/5/08
 CUSTOMER'S AUTHORIZED CHOP & SIGNATURE NAME DATE

PREPARED BY OTHMAN BIN PUJUKIMAN	DRIVER SIGN 	AUTHORIZED BY 
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- Original : Customer
- Yellow Copy : Operation Dept.
- Blue Copy : Recipient
- Green Copy : File

DELIVERY ORDER



MISC Integrated Logistic Sdn. Bhd. (112036-P)
 GROUND FLOOR, KOMPLEKS MISC,
 PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
 KAWASAN PERINDUSTRIAN TEBRAU II,
 81100 JOHOR BAHRU,
 JOHOR DARUL TAKZIM, MALAYSIA.
 TEL : 07-357 5510
 FAX : 07-351 3557

D/O No. : **A 69915**
 Date Issue : **10/05/2008**
 Date of Delivery : **10/05/2008**

TO:- MISC INTEGRATED LOGISTIC SDN BHD. PLO 137 & 138, JALAN ANGKASA MAS UTAMA, KAWASAN PERINDUSTRIAN TEBRAU II, 81100 JOHOR BAHRU.	DELIVERY INSTRUCTION
ATTN: TELEPHONE:	TIME: DATE:

ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
1	EQUIPMENT FOR SUB SEA SYSTEM 1 UNITS WATER INJECTION X-TREE # 2 WITH SCM, C/W ACCESSORIES SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-001		

Carrier / Lorry No. BED7026	Your Order No. As above	Terms	Invoice No / Date PONO:7500049802
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I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.

CUSTOMER'S AUTHORIZED CHOP & SIGNATURE _____ NAME _____ DATE **12/5/08**

PREPARED BY 	DRIVER SIGN 	AUTHORIZED BY
-----------------	-----------------	-------------------

Original : Customer
 Yellow Copy : Operation Dept.
 Blue Copy : Recipient
 Green Copy : File



INTEGRATED LOGISTICS

DELIVERY ORDER

MISC Integrated Logistic Sdn. Bhd. (112036-P)

GROUND FLOOR, KOMPLEKS MISC,
PLO 137 & 138, JALAN ANGKASA MAS UTAMA,
KAWASAN PERINDUSTRIAN TEBRAU II,
81100 JOHOR BAHRU,
JOHOR DARUL TAKZIM, MALAYSIA.
TEL : 07-357 5510
FAX : 07-351 3557

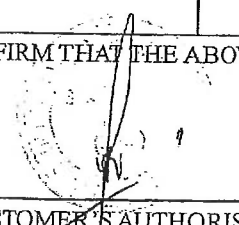
D/O No. : A 69916
Date Issue : 10/05/2008
Date of Delivery : 10/05/2008


TO:- MISC INTEGRATED LOGISTIC SDN BHD. PLO 137 & 138, JALAN ANGKASA MAS UTAMA, KAWASAN PERINDUSTRIAN TEBRAU II, 81100 JOHOR BAHRU.	DELIVERY INSTRUCTION
ATTN: TELEPHONE:	TIME: DATE:

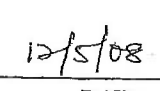
ITEM	DESCRIPTION OF GOODS	QUANTITY	AMOUNT
1	<u>EQUIPMENT FOR SUB SEA SYSTEM</u> 1 UNITS WATER INJECTION X-TREE # 1 WITH SCM, C/W ACCESSORIES SHIPPER : FMC TECHNOLOGIES SINGAPORE PTE LTD INVOICE NO: MMHE-2008-001		


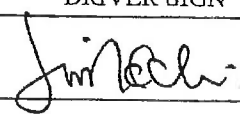

Carrier / Lorry No.	Your Order No.	Terms	Invoice No / Date
WFT8631	As above		PONO:7500049802

I CONFIRM THAT THE ABOVE GOODS WERE RECEIVED IN GOOD CONDITION.


 CUSTOMER'S AUTHORISED CHOP & SIGNATURE


 NAME


 DATE

 PREPARED BY OTHMAN FFS (MIL S)	DRIVER SIGN 	AUTHORISED BY 
--	--	--

Original
 Yellow Copy : Operation Dept.
 Blue Copy : Recipient
 Green Copy : File

1: SUB SEA EQUIPMENT DE

NO	DESCRIPTION OF GOODS	QTY	Lengh cm	Width cm	Height cm	Weight kg
1	Water injection X- Tree with SCM c/w accessories	1	420	380	420	35000
2	Water injection X- Tree with SCM c/w accessories	1	420	380	420	35000
3	Prod X- Tree #4 wih SCM c/w accessories	1	420	437	411	44000
4	Flowbase,injector #1 & #2	2	460	560	260	41250
5	Test stump Assy X-tree	1	329	329	267	9172
6	Water injection X- Tree #1 loose item	1				
7	Water injection X- Tree #2 loose item	1				
8	Prod X- Tree #4 loose item	1				
9	Guide Post -Long	2	576	22		699
10	Guide Post - Short	2	515	22		632
11	W.I Tubing Hanger Assy #1 & #2	2	411	60		1039
12	ROV Tree Cap #13,#14,#17	3	117	39	61	294