



Saipem TAD



Designed, Engineered and Supervised
By



GELA MONTAGGI S.R.L.
Montaggi Industriali



Saipem

GROUP

THE CONCEPT

- The concept of SAIPEM TAD is to have a mobile drilling rig (Drilling Set) dismounted and stowed on the barge deck to be moved on location and erected on a fixed platform by means of the 100 t lifting capacity lattice boom crane as well as with the capability to provide all exploitation services together with accommodation for 100 persons.
- The two different way of operation can be summarized as shown:

Drilling

Saipem TAD
new tender assisted drilling barge

Eni Saipem

Saipem TAD

Classification:
400-441 barge, 20' drilling vessel

Accommodation facilities:
100 persons

Rig duty:
20' drilling vessel, 20' drilling vessel

Derrick:
100,000 lbs

Maximum static hook load:
100 t

Drawworks:
1,200 HP

Racking capacity:
16,000 t DP and 1,000 t all other DP

Top drive minimum output torque:
30,000 ft-lb

Mud pumps hydraulic power:
1,800 HP (max) 2,200 HP

Storage capacity:
Active fluid mud: 200 cu m
Reserve fluid mud: 100 cu m
Slur mud: 100 cu m
Cement: 100 cu m
Pack: 100 t
Weld: 100 cu m
No. line: 5 cu m
Storage life (dry): 30 cu m
Concrete (dry): 50 cu m

Tubular:
10,000 ft of DP 5 1/2", 5,000 ft of DP 3 1/2" (100' 30")
HACDP 2", 30' HACDP 3 1/2", 18' spool DC 3" x 6 1/2", 18' spool
DC 4 1/2" + handling tools for tubular string, washers, etc. etc.

Electrical supply:
Power generator by 4 sets CAT 3516 B with 1,200 kW each
at 600 V, 60 Hz

Electric crane:
Boom length 34 m, SWL 100 t at 16 m radius, whip 20 m, 18 t

Service crane:
Boom length 34 m, SWL 22 t at 15 m radius, whip 20 m, 8 t

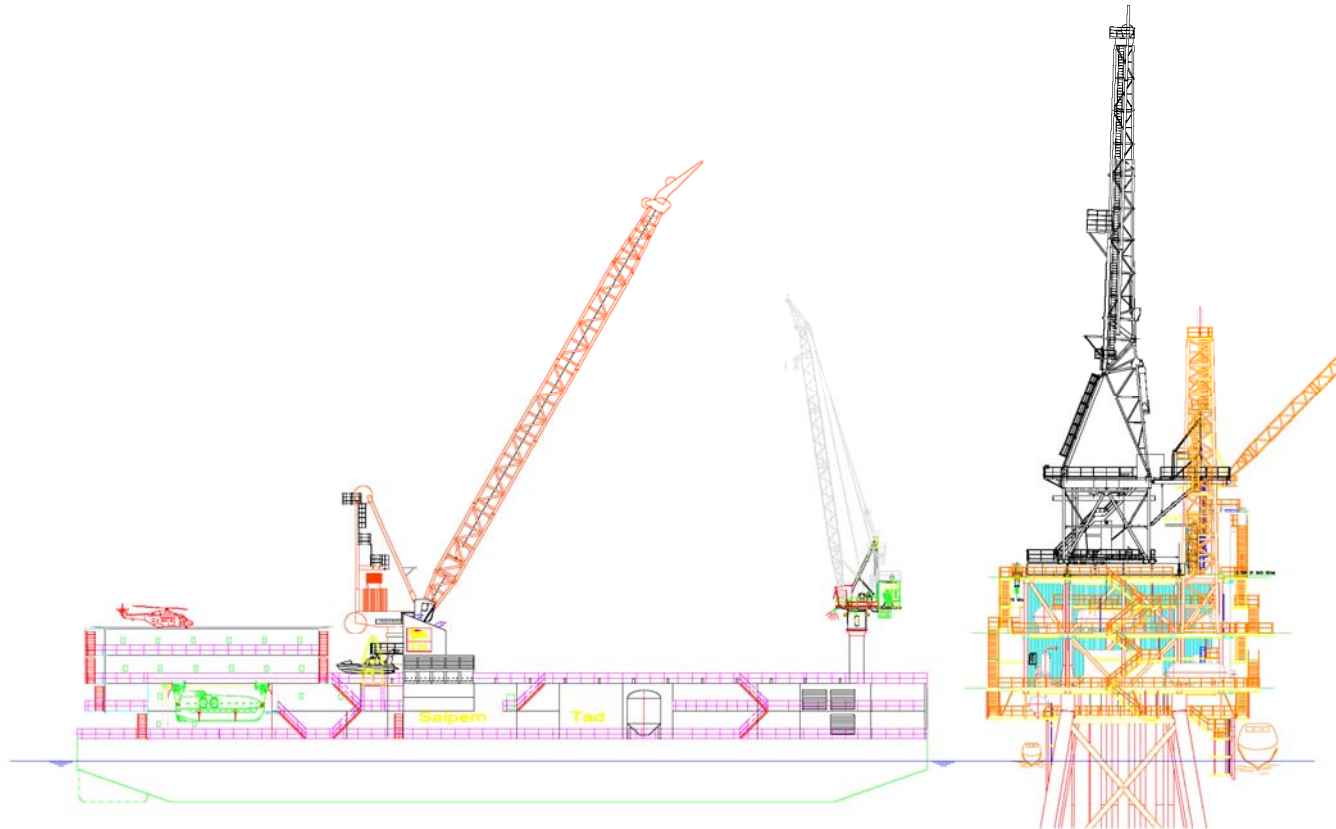
Slidding:
Slidding on the existing beams of the platform

Helideck:
Suitable for helicopters up to and including Sikorsky S-62 type

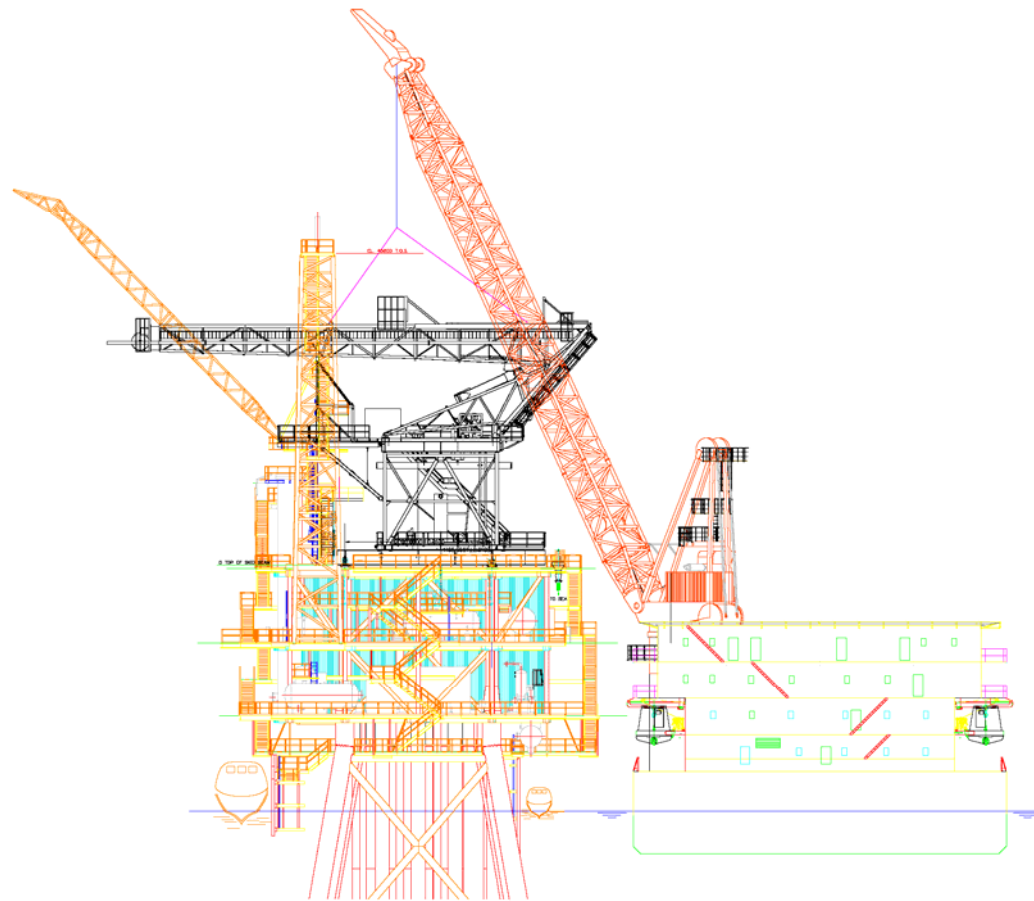
Eni Saipem
People, ideas, energy.

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www.saipem.it - A subsidiary of Eni S.p.A.

THE TENDER MODE



THE INSTALLATION MODE



PROJECT SCHEDULE

CONTRACT AWARDED

FEB 7 2007

BARGE ARRIVAL IN DOUALA

APRIL 10 2007

BARGE DEPARTURE FROM DOUALA

MAY 25 2008

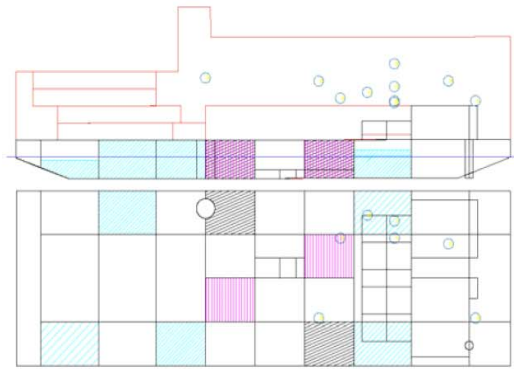
ACTIVITIES CARRIED OUT BY AIMS srl

1. **BASIC DESIGN INCLUDING ABS APPROVAL**
2. **PROJECT SCHEDULE DEFINITION**
3. **DETAIL ENGINEERING WITH DEVELOPMENT OF A COMPLETE 3D MODEL**
4. **ON SITE SUPERVISION WITH DIRECT CHECK OF THE 3D MODEL**
5. **INTEGRATION OF THE ENGINEERING ACTIVITIES WITH THE SHIPYARD CONSTRUCTION METHODS**
6. **ASSISTANCE TO THE YARD FOR THE INTRODUCTION OF NEW FABRICATION TECHNOLOGIES**
7. **CONTINUOUS PRODUCTION MONITORING AGAINST THE PROJECT SCHEDULE WITH FOLLOW UP OF ALL STEEL PREFABRICATION AND ERECTION AS WELL AS PIPING INSTALLATION ACTIVITIES**
8. **PLANNING OF THE RIG UP RIG DOWN OPERATIONS**
9. **ASSISTANCE FOR ABS SURVEYS ON SITE**
10. **DES LOADING / UNLOADING PROCEDURES**
11. **SEA FASTENING**
12. **SHELTER DECK STRUCTURAL VERIFICATION**

Loading Condition no. : 4
 Condition Id. text : DES INSTALLATION

Loading Condition no. : 4
 Condition Id. text : DES INSTALLATION
 SUBJECTS ABILITY AREA (GZ-curve, Areas, Particulars & Criteria Control)

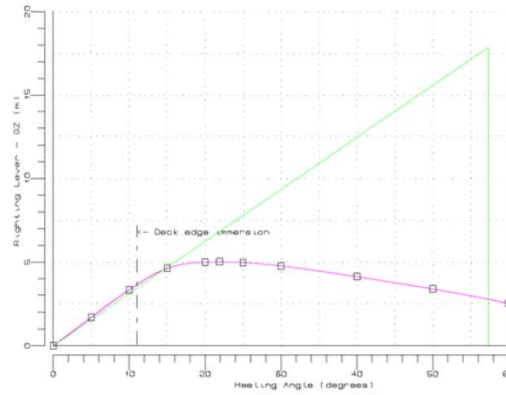
BASIC DESIGN



WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load Density (t)	Distribution (MT/m ³)	Distribution			VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)	LCG (m)		
1 LIQUIDS									
- RW		425.708	100.0	1.0000	35.05	44.20	39.899	-11.361	3.366
- RDW		456.107	100.0	1.0000	53.34	62.48	57.912	11.416	3.364
- RBO		398.323	100.0	0.8700	53.34	62.48	57.912	-3.810	3.352
- RDO		381.771	100.0	0.8700	53.34	62.48	57.912	-3.810	3.352
		1678.460					49.003	0.221	3.359
2 MUD MODULE INSTALLATION									
- SKID BASE		40.000			53.34	62.48	85.000	7.000	13.500
- BOP DECK		20.000					70.000	-7.000	20.000
- SIDE SUPPORT FRAMES		20.000					70.000	-7.000	16.000
- DRILL FLOOR		50.000					65.000	-7.000	19.000
- ROTARY TABLE		20.000					70.000	-7.000	16.000
- MAST LOWER SECTION		30.000					80.000	-6.000	17.000
- MAST UPPER SECTION		80.000					56.000	7.000	17.000
- DRAMWORK PLATFORM		30.000					60.000	-7.000	14.000
- DRAMWORK		40.000					65.000	-11.000	15.000
3 MUD MODULES									
3 MB04F		545.427	100.0	1.0250	15.24	25.91	20.574	-11.416	3.364
4 MUD MODULES									
4 MB07S		467.509	100.0	1.0250	25.91	35.05	30.480	11.416	3.364
5 MUD MODULES									
5 MB11S		467.509	100.0	1.0250	25.91	35.05	30.480	11.416	3.364

.... to be continued on next page



Angle (degr.)	GZ (m)	Area (m ² rad)
0.000	0.000	0.0000
5.000	1.708	0.0749
10.000	3.327	0.2955
15.000	4.616	0.6472
20.000	4.991	1.0718
21.900	5.007	1.2377
25.000	4.967	1.5079
30.000	4.759	1.9332
40.000	4.112	2.7098
50.000	3.376	3.3643
60.000	2.513	3.8808

Deck immersion : 11.016 °
 Maximum GZ at : 21.900 °
 Area, 0 - 30 : 1.9332 m²rad
 Area, 0 - 40 : 2.7098 m²rad
 Area, 30 - 40 : 0.7766 m²rad
 Area, 0 - maxGZ : 1.2377 m²rad
 GM : 17.834 m

Heel to starboard side
 Applied VCG : 6.082 m
 TCG : 0.000 m

Table of intact stability criteria

TYPE : MODU89

Code	Id. text	Actual value	Concl-usion	KGmax (m)
ARE1	Min. GZarea/HLarea, wind moment (MODU), v = 36.00 m/s : 15.00 °	0.539	OK	24.186
ARE2	Min. GZarea/HLarea, wind moment (MODU), v = 36.00 m/s : 1.40 -	24.047	OK	23.111
ARE12	Min. (GZarea/HLarea), wind moment (MODU), v = 51.40 m/s : 1.40 -	11.796	OK	21.211

GZarea : area of righting lever
 HLarea : area of heeling lever
 Wind moment acc to MODU code (t*m) : 3580.783
 Stability conclusion : OK
 Resulting KGmax (m) : 21.211
 KG (incl. correction) (m) : 6.082
 Intact stability margin (m) : 15.130

THE BASIC DESIGN ACTIVITIES WERE :

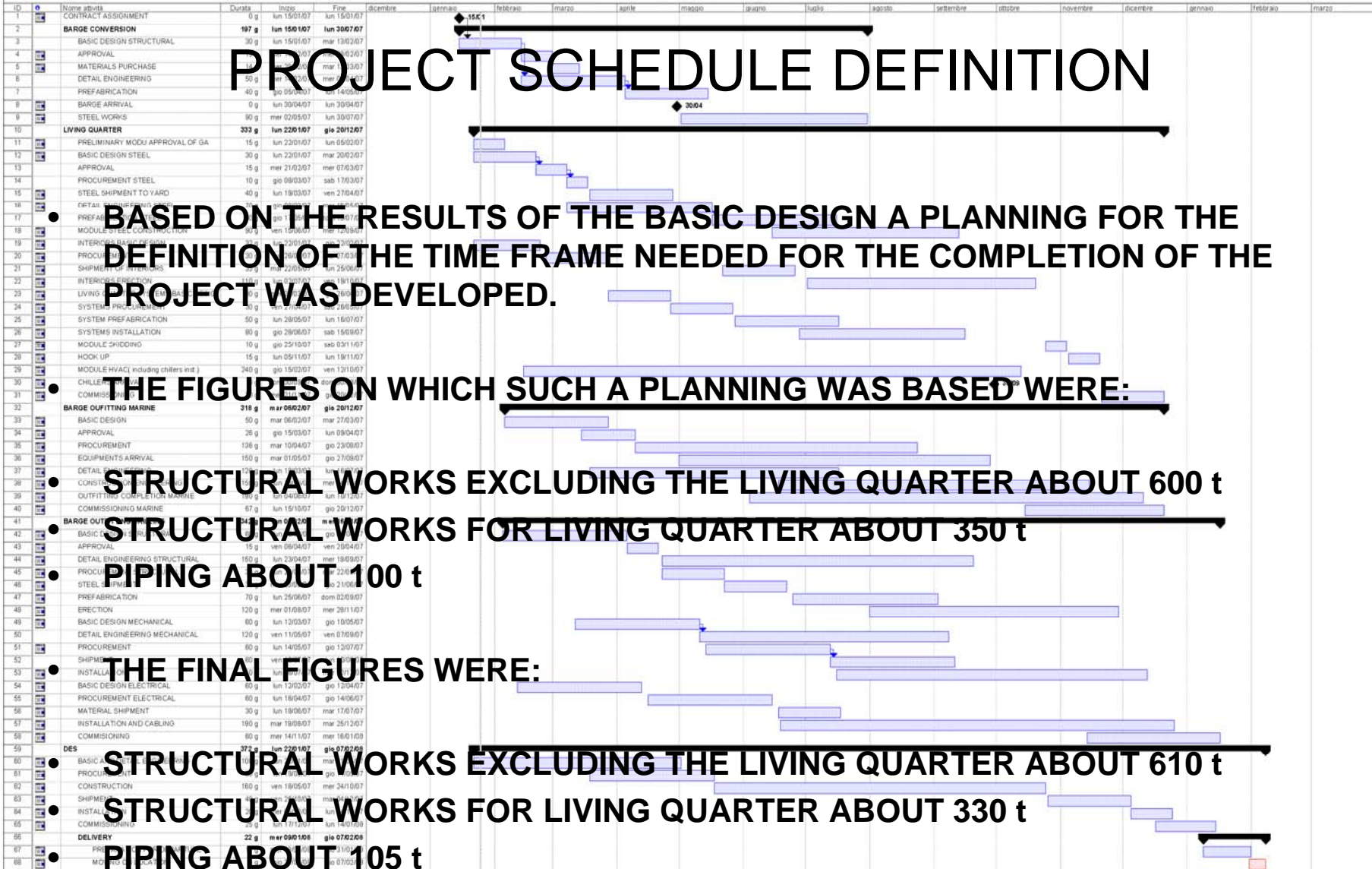
1. PRELIMINARY HYDROSTATIC CALCULATIONS WITH DEFINITION OF TANK PLAN , LIGHTSHIP WEIGHT AND DECK LOAD

2. STRUCTURAL DRAWINGS INCLUDING ABS APPROVAL

3. STRUCTURAL WEIGHTS CALCULATION FOR FASTEST PROCUREMENT

4. MARINE AND DRILLING P&IDs INCLUDING ABS APPROVAL

5. PIPING WEIGHTS AND QUANTITIES DEFINITION FOR FASTEST PROCUREMENT



PROJECT SCHEDULE DEFINITION

• BASED ON THE RESULTS OF THE BASIC DESIGN A PLANNING FOR THE DEFINITION OF THE TIME FRAME NEEDED FOR THE COMPLETION OF THE PROJECT WAS DEVELOPED.

• THE FIGURES ON WHICH SUCH A PLANNING WAS BASED WERE:

• STRUCTURAL WORKS EXCLUDING THE LIVING QUARTER ABOUT 600 t

• STRUCTURAL WORKS FOR LIVING QUARTER ABOUT 350 t

• PIPING ABOUT 100 t

• THE FINAL FIGURES WERE:

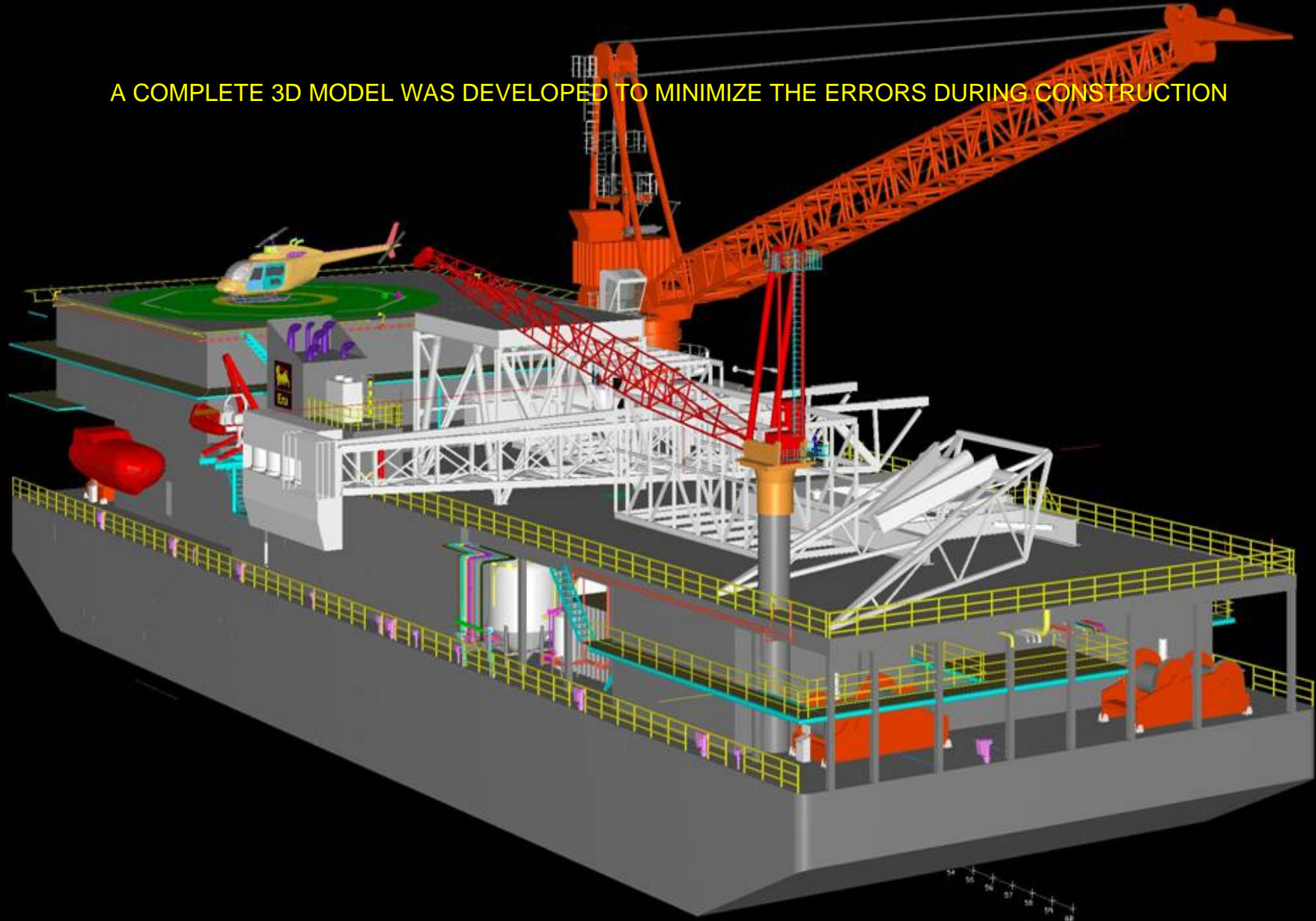
• STRUCTURAL WORKS EXCLUDING THE LIVING QUARTER ABOUT 610 t

• STRUCTURAL WORKS FOR LIVING QUARTER ABOUT 330 t

• PIPING ABOUT 105 t

DETAIL ENGINEERING



















A COMPLETE 3D MODEL WAS DEVELOPED TO MINIMIZE THE ERRORS DURING CONSTRUCTION

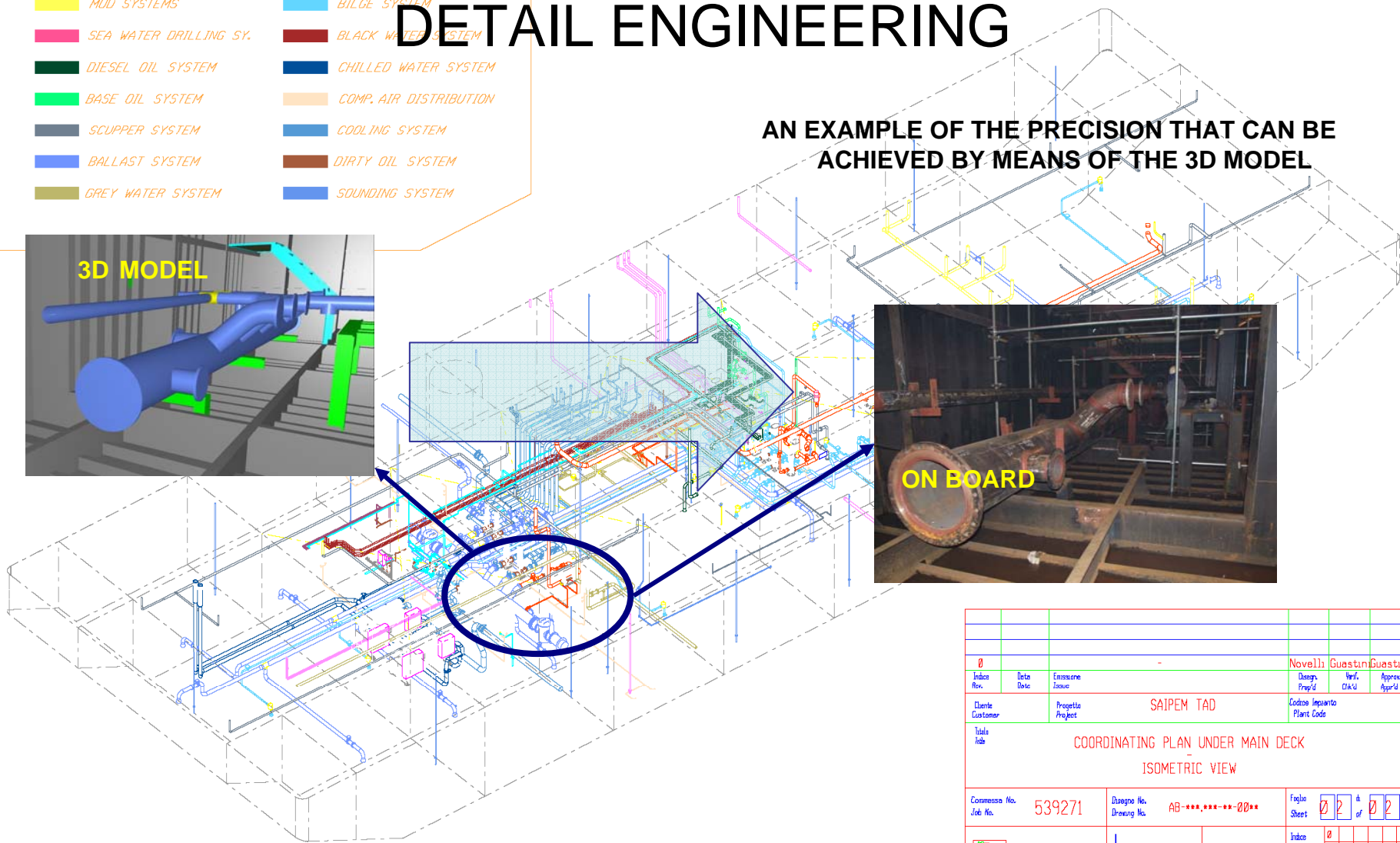
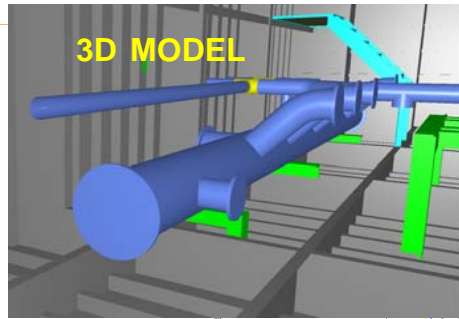




COORDINATING PLAN UNDER MAIN DECK
ISOMETRIC VIEW

DETAIL ENGINEERING

AN EXAMPLE OF THE PRECISION THAT CAN BE
ACHIEVED BY MEANS OF THE 3D MODEL

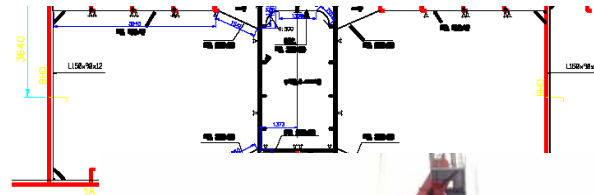
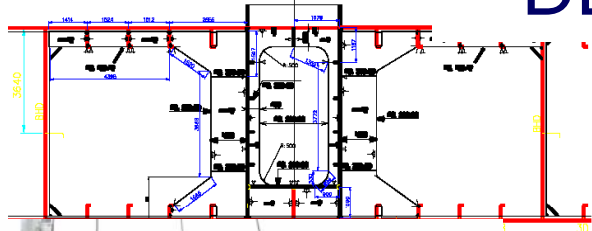
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|--|--|
|  AIR VENT SYSTEM |  DRILL WATER SYSTEM |
|  FIRE FIGHTING SYSTEM |  FRESH WATER SYSTEM |
|  MUD SYSTEMS |  BILGE SYSTEM |
|  SEA WATER DRILLING SY. |  BLACK WATER SYSTEM |
|  DIESEL OIL SYSTEM |  CHILLED WATER SYSTEM |
|  BASE OIL SYSTEM |  COMP. AIR DISTRIBUTION |
|  SCUPPER SYSTEM |  COOLING SYSTEM |
|  BALLAST SYSTEM |  DIRTY OIL SYSTEM |
|  GREY WATER SYSTEM |  SOUNDING SYSTEM |



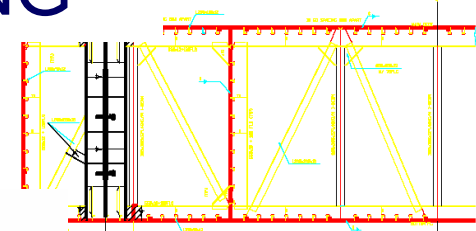
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Indice Rev.	Data Date	Emissione Isouze	Disegno Project	Verif. DAK	Approv. Appr'd
Cliente Customer	SAIPEM TAD		Codice Impianto Plant Code		
Titolo Title COORDINATING PLAN UNDER MAIN DECK ISOMETRIC VIEW					
Commissione No. Job No.	539271	Disegno No. Drawing No.	AB-***-***-00**	Foglio Sheet	02 di 02
				Indice Revision	0
Scala Scale		1:***		Formato Size	
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DETAIL ENGINEERING

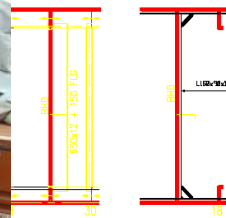
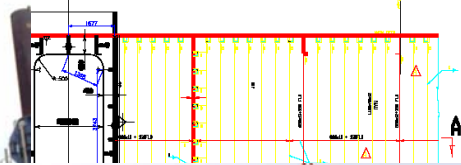
LONG SECTION mm 12192 FROM



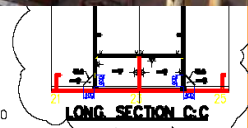
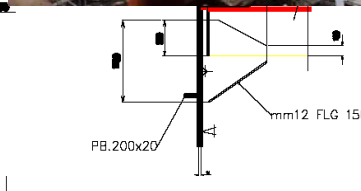
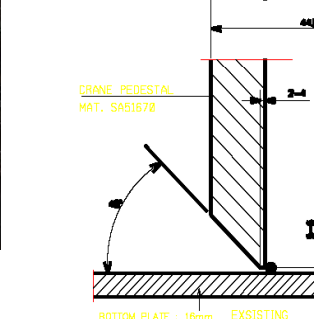
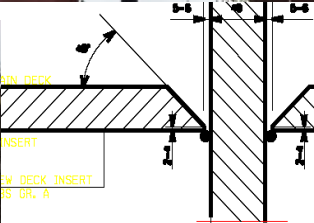
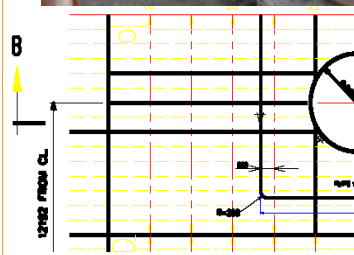
TRANSVERSE SECTION FR-22-24



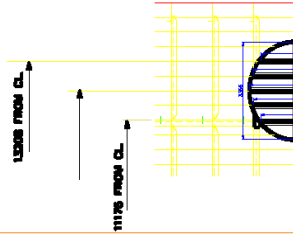
TRANSVERSE SECTION FR-22



K PLAN



BOTTOM GIRDER 550x10+100FLG
BOTTOM LONGL. L150x80x12























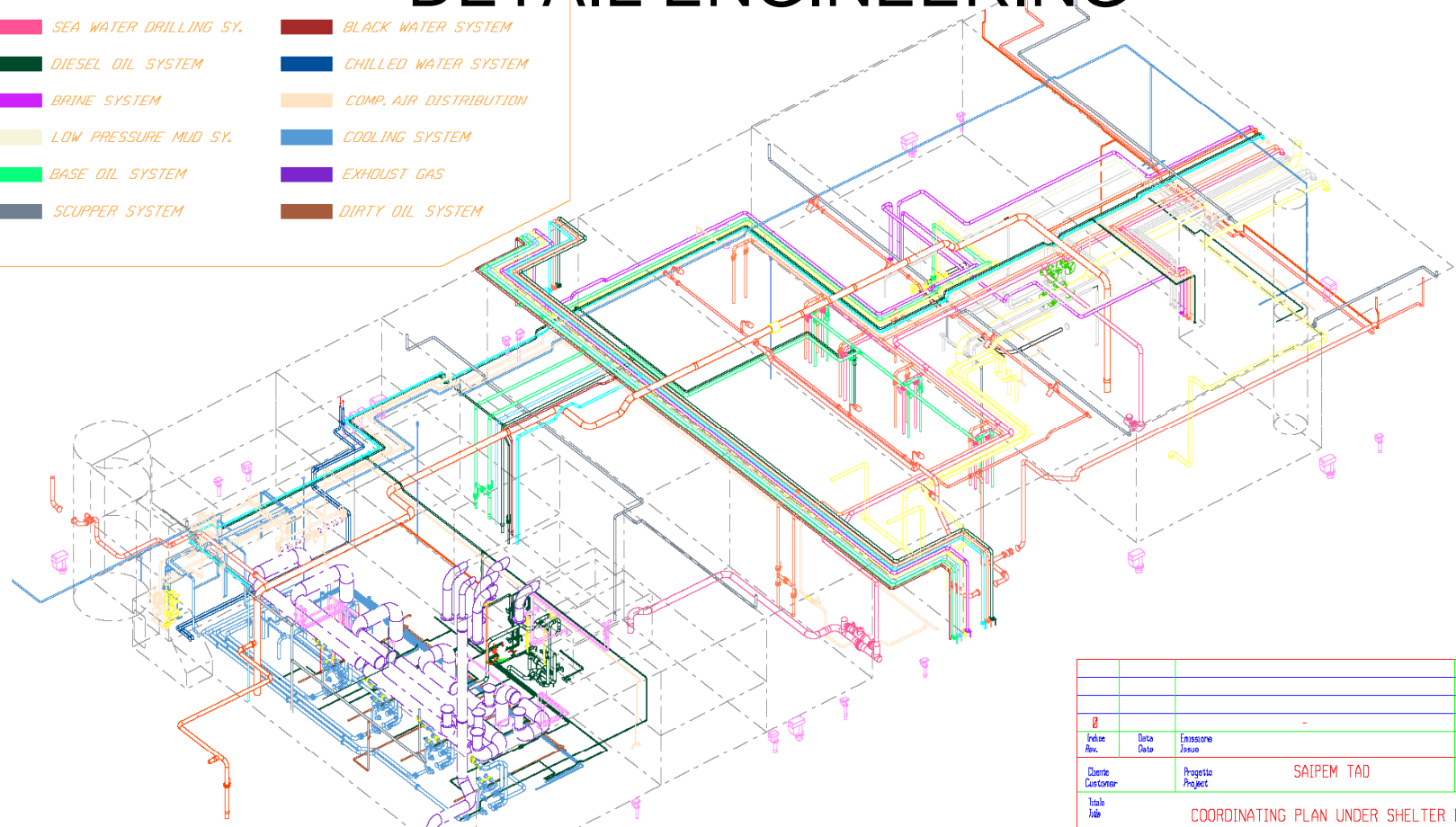
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99	BE-FR-16	BE-FR-16	BE-FR-16
100	BE-FR-16	BE-FR-16	BE-FR-16

— CRANE PEDESTAL AND CRANE INSTALLATION



COORDINATING PLAN UNDER SHELTER DECK
ISOMETRIC VIEW

DETAIL ENGINEERING

- | | |
|--|--|
|  AIR VENTSYSTEM |  DRILL WATER SYSTEM |
|  FIRE FIGHTING SYSTEM |  FRESH WATER SYSTEM |
|  FOAM SYSTEM |  HIGH PRESSURE MUD SY. |
|  MUD SYSTEMS |  BILGE SYSTEM |
|  SEA WATER DRILLING SY. |  BLACK WATER SYSTEM |
|  DIESEL OIL SYSTEM |  CHILLED WATER SYSTEM |
|  BRINE SYSTEM |  COMP. AIR DISTRIBUTION |
|  LOW PRESSURE MUD SY. |  COOLING SYSTEM |
|  BASE OIL SYSTEM |  EXHOUST GAS |
|  SCUPPER SYSTEM |  DIRTY OIL SYSTEM |



ISO VIEW OF ALL PIPING ABOVE THE SHELTER DECK

0		-		Novelli		Giustini	
Indice	Data	Emissione		Disegn.	Verif.	Approv.	
Rev.	Date	Issue		Proj'd	CHK'd	App'd	
Cliente	SAIPEM TAD			Codice Impianto			
Customer	Project			Plant Code			
Titolo							
COORDINATING PLAN UNDER SHELTER DECK							
ISOMETRIC VIEW							
539271		AB-***-***-00**		Foglio		di	
539271		AB-***-***-00**		Sheet		of	
Saipem				Indice			
Saipem				Revision			
				Scala		Formato	
				Scale		Size	
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INTEGRATION OF THE ENGINEERING ACTIVITIES WITH THE SHIPYARD CONSTRUCTION METHODS

- TO ENHANCE THE PRODUCTION PERFORMANCES AIMS srI TRANSFERRED THE WHOLE ENGINEERING ACTIVITY TO CAMEROUN IN SUCH A WAY THAT NO DELAY COULD ARISE BETWEEN THE ENGINEERING AND PRODUCTION PHASES
- FURTHERMORE IN THIS WAY IT WAS POSSIBLE TO BETTER UNDERSTAND THE PRODUCTION BEHAVIOUR OF THE SHIPYARD AND DIRECTLY CHECK THE CONSTRUCTION WORKS AS WELL AS KEEP NOTE OF THE PRODUCTION TIMES FOR THE DIFFERENT ACTIVITIES
- THE FLOW OF THE INFORMATION FROM DESIGN TO PRODUCTION WAS THEN LIMITED TO A VERY SHORT DELAY



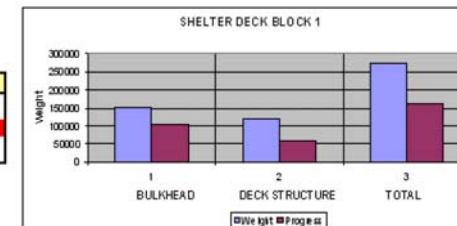
SUMMARY OF ALL BULKHEAD OF SHELTER DECK BLOCK 1						
DESCRIPTION	Weight [kg]	Cut Progress	Press Progress	Welded Progress	TOTAL PROGRESS	TOTAL PROGRESS %
TOTAL WEIGHT	153314	28275	24093	29964	104333	65

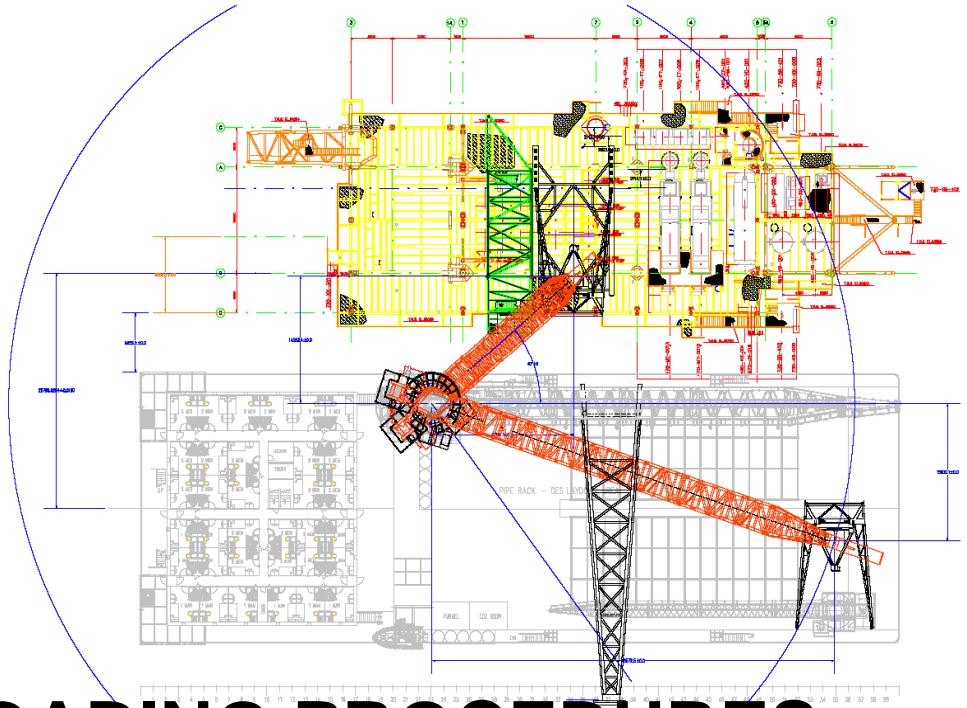
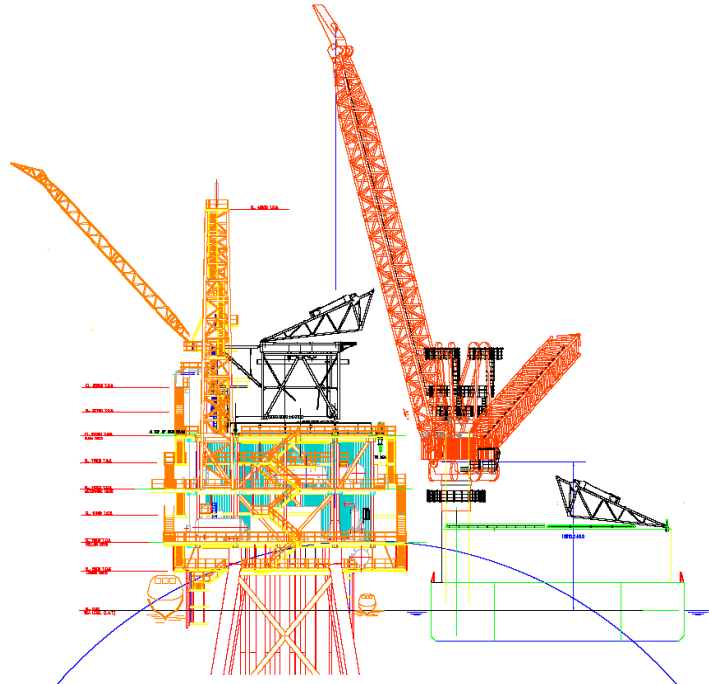
SUMMARY OF SHELTER DECK STRUCTURE BLOCK 1						
DESCRIPTION	Weight [kg]	Cut Progress	Press Progress	Welded Progress	TOTAL PROGRESS	TOTAL PROGRESS %
TOTAL WEIGHT	121007	24095	20721	13114	60221	50

TOTAL OF SHELTER DECK BLOCK 1						
DESCRIPTION	Weight [kg]	Cut Progress	Press Progress	Welded Progress	TOTAL PROGRESS	TOTAL PROGRESS %
TOTAL WEIGHT	274321	52370	44814	43078	164559	60

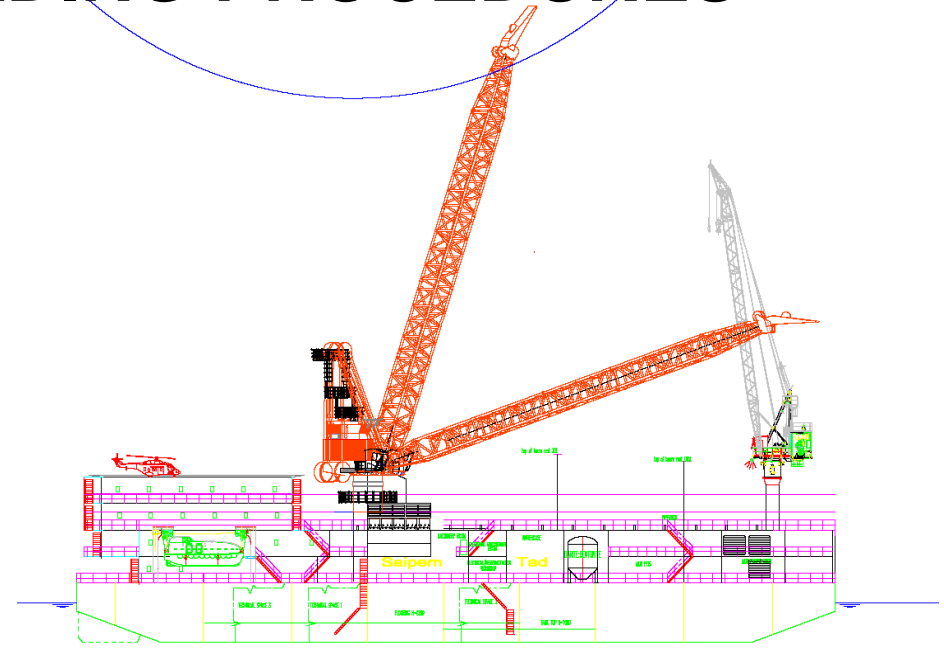
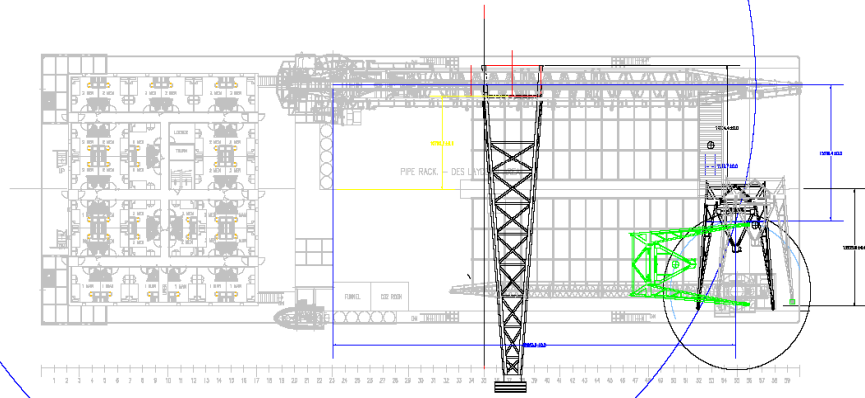
PREFABRICATION LONG. SECTION mm13716 STBD SIDE PART 1																
DESCRIPTION	L	b	thk		N'	Weight [kg]	Cut - Total	Cut%	Cut Progress	Press total	Press %	Press Progress	Welded total	Welded %	Welded Progress	
Plate	1662	6000	10		1	5597,8	1119,6	100	1119,6	1679,3	100	1679,3	2736,9	100	2736,9	
Stiffners L=140x80x10	L	b	t													
	6000	140	80	10	11	1161,6	232,3	100	232,3	580,8	100	580,8	348,5	100	348,5	
Deck Trans	L	h	thk 1	b	thk 2											
	3038	600	10	200	20	2	486,1	97,2	100	97,2	243,0	100	243,0	145,8	100	145,8
Deck Trans	1512	600	10	200	20	1	121,0	24,2	100	24,2	60,5	100	60,5	36,3	100	36,3
Deck Trans	2420	600	10	200	20	1	193,6	38,7	100	38,7	96,8	100	96,8	58,1	100	58,1
Side Frame	6000	600	10	280	25	3	1872,0	374,4	100	374,4	936,0	100	936,0	561,6	100	561,6
Gussets																
TOTAL WEIGHT							9432,0		1886,4			3586,4			3840,2	

PRODUCTION h/Tonn	
TOTAL TONN ALL DECK 2	3,2 h/T
TOTAL HOUR'S SPEND	10 h/T

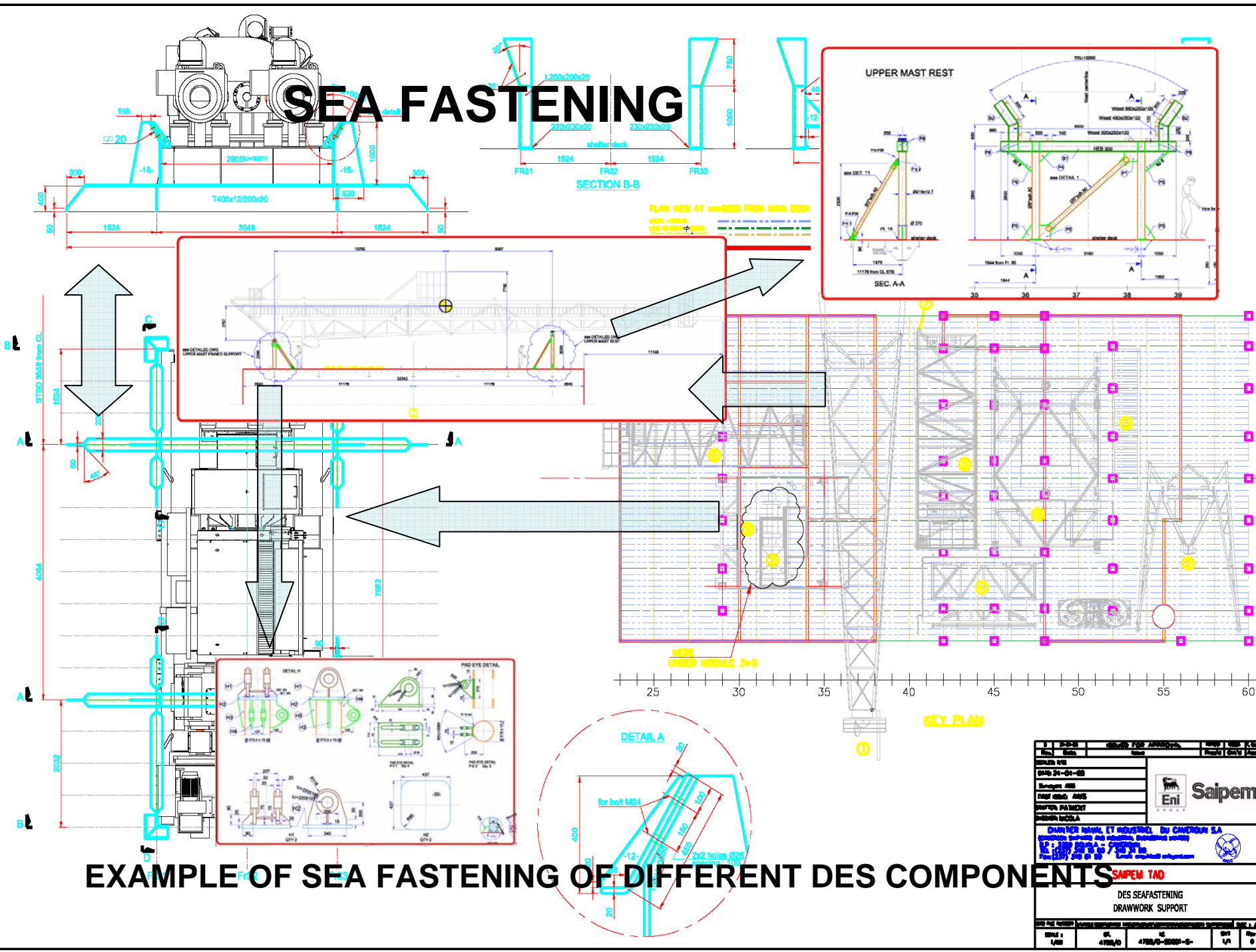




DES ^{VIEW SET} LOADING / UNLOADING PROCEDURES



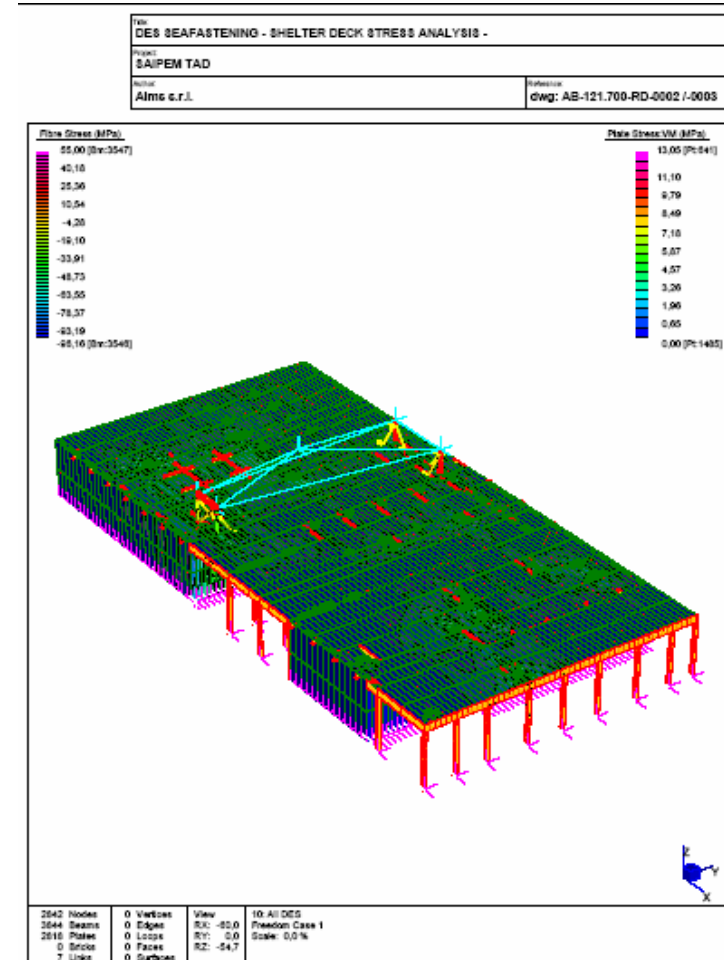
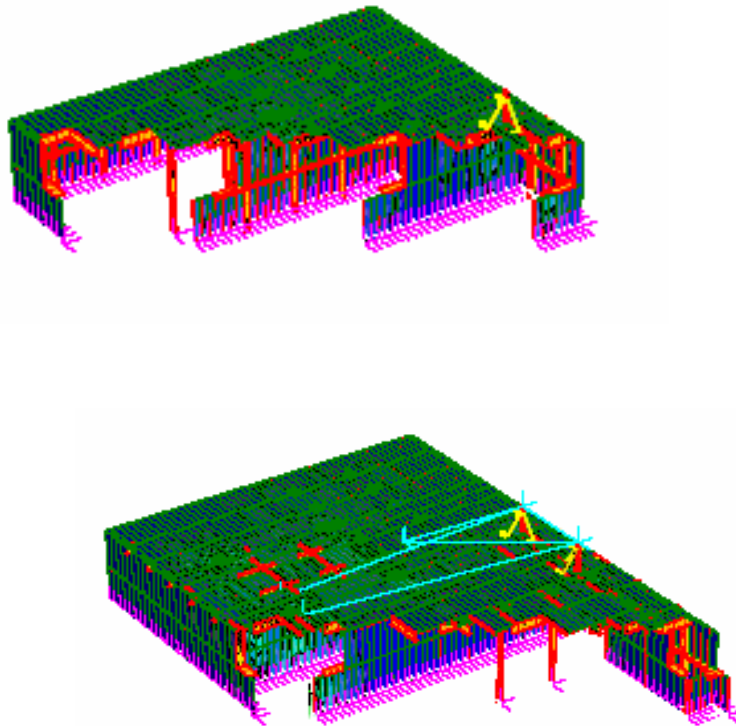
SEA FASTENING



EXAMPLE OF SEA FASTENING OF DIFFERENT DES COMPONENTS

ENI ENI S.p.A. Via Broletto, 15 00186 Roma, Italia Tel. +39 06 4981 4111 Fax +39 06 4981 4112 E-mail: enicom@enicom.com		SAIPEM SAIPEM S.p.A. Via Broletto, 15 00186 Roma, Italia Tel. +39 06 4981 4111 Fax +39 06 4981 4112 E-mail: saipem@saipem.com	
ENI ENI S.p.A. Via Broletto, 15 00186 Roma, Italia Tel. +39 06 4981 4111 Fax +39 06 4981 4112 E-mail: enicom@enicom.com		SAIPEM SAIPEM S.p.A. Via Broletto, 15 00186 Roma, Italia Tel. +39 06 4981 4111 Fax +39 06 4981 4112 E-mail: saipem@saipem.com	
SAIPEM TAD DES SEAFASTENING DRAWWORK SUPPORT			
Scale: 1:100	Date: 4/2010	No. 4785/0-0000-0-	Rev. 1/1

SHELTER DECK STRUCTURAL VERIFICATION



ACHIEVED RESULTS

- THE FOLLOWING SLIDES WILL SHOW THE CONSTRUCTION DEVELOPMENT ALONG THE BUILDING PERIOD, FROM THE BARGE ARRIVAL TO THE BARGE DEPARTURE FOR OPERATION.

BARGE AT ARRIVAL ON APRIL 10 2007





BARGE ON SEPTEMBER 2007

BARGE ON JANUARY 2008



BARGE ON MARCH 2008



THE DRILLING SET ON APRIL 2008



LOADING ON THE SHELTER DECK THE DRILLING SET COMPONENTS



LOADING ON THE SHELTER DECK THE DRILLING SET COMPONENTS



BARGE AT DEPARTURE ON MAY 25 2008



BARGE AT DEPARTURE ON MAY 25 2008



THE HELIDECK



THE SHELTER DECK



THE GENERATORS ROOM

26/08/2008 15:34



THE MUD PITS



26/08/2008 15:46

THE MUD PUMPS ROOM

26/08/2008 15:48



WINCHES AREA FWD



26/08/2008 15:50



EXTERNAL VIEW STARBOARD

26/08/2008 16:02

EXTERNAL VIEW PORT



26/08/2008 16:47

MAIN DECK ALLEYWAY STARBOARD



26/08/2008 15:40

ACCOMMODATIONS DETAILS - SMOKING ROOM



ACCOMMODATIONS DETAILS – 2 BEDS CABIN



ACCOMMODATIONS DETAILS – 4 BEDS CABIN



ACCOMMODATIONS DETAILS – COFFE SHOP



ACCOMMODATIONS DETAILS – CHANGE ROOM



ACCOMMODATIONS DETAILS – HOSPITAL



ACCOMMODATIONS DETAILS – MESS



ACCOMMODATIONS DETAILS – GALLEY



ACCOMMODATIONS DETAILS – GALLEY



ACCOMMODATIONS DETAILS – BRIDGE

