



CRUDE OIL TANKS SPECIFIC DENSITY 0.881/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
No 1 COT (C)	Fr 98	Fr 107	35464	223060	31208	276.13	0.00	15.79
No 1 WCOT (P)	Fr 98	Fr 107	18616	117094	16383	275.12	-18.76	16.30
No 1 WCOT (S)	Fr 98	Fr 107	18616	117094	16382	275.12	-18.76	16.30
No 2 COT (C)	Fr 90	Fr 98	33910	213286	29841	232.50	0.00	15.77
No 2 WCOT (P)	Fr 90	Fr 98	20995	132053	18475	232.46	20.80	15.44
No 2 WCOT (S)	Fr 90	Fr 98	20995	132053	18475	232.46	-20.80	15.44
No 3 COT (C)	Fr 85	Fr 90	21194	133304	18650	198.05	0.00	15.77
No 3 WCOT (P)	Fr 83	Fr 90	23674	148906	20833	187.45	20.81	14.96
No 3 WCOT (S)	Fr 83	Fr 90	23674	148906	20833	187.45	-20.81	14.96
No 4 COT (C)	Fr 81	Fr 85	16955	106643	14920	174.20	0.00	15.77
No 4 WCOT (P)	Fr 71	Fr 81	26256	165143	23105	137.14	20.80	15.44
No 4 WCOT (S)	Fr 71	Fr 81	23931	150520	21059	138.42	-20.15	15.42
No 5 COT (C)	Fr 71	Fr 81	42387	266608	37263	137.10	0.00	15.77
No 5 WCOT (P)	Fr 63	Fr 71	19571	123100	17223	90.02	20.43	16.25
No 5 WCOT (S)	Fr 63	Fr 71	19571	123100	17223	90.02	-20.43	16.25
No 6 COT (C)	Fr 67	Fr 71	16955	106643	14920	100.00	0.00	15.77
No 7 COT (C)	Fr 60	Fr 67	29638	186420	26082	70.87	0.00	15.79
Total			412403	2593935	362915			

SLOP TANKS SPECIFIC DENSITY 1.1281/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
SLOP TANK (P)	Fr 60	Fr 63	5678	35715	6405	60.62	19.42	18.48
SLOP TANK (S)	Fr 60	Fr 63	5678	35715	6405	60.62	-19.42	18.48
Total			11356	71430	12810			

MGO TANKS SPECIFIC DENSITY 0.8901/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
MGO SERV TANK (P)	Fr 44	Fr 47	1598	1422	43.22	19.15	21.78	1593
MGO STORAGE TANK	Fr 48	Fr 52	3294	2932	48.06	-16.61	20.68	4815
MGO SERVICE TANK	Fr 36	Fr 36	55	49	33.85	14.06	23.91	6
MGO OVERFLOW TANK	Fr 27	Fr 42	204	182	35.78	4.06	1.97	258
MGO SETT TANK (P)	Fr 54	Fr 52	2136	1901	49.78	15.60	20.33	3539
Total			7287	6486				

FW TANKS SPECIFIC DENSITY 1.0001/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
FW TANK 1 (P)	Fr 16	Fr 20	98	98	15.50	14.41	24.76	53
FW TANK 1 (S)	Fr 16	Fr 24	194	194	16.75	-9.17	24.59	86
FW TANK 2 (P)	Fr 16	Fr 20	120	120	15.40	9.17	24.59	53
FW TANK 2 (S)	Fr 16	Fr 24	205	205	17.48	-14.87	24.72	148
Total			617	618				

HFO TANKS SPECIFIC DENSITY 0.9911/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
HFO SERVICE TANK	Fr 49	Fr 54	141	140	45.20	14.06	20.47	6
HFO SETTLING TANK	Fr 44	Fr 49	158	156	41.00	14.06	20.47	7
HFO OVER TK	Fr 44	Fr 48	23	23	40.76	7.78	2.95	18
Total			322	319				

LO TANKS SPECIFIC DENSITY 0.9001/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
MAIN LO STORE TANK	Fr 26	Fr 31	57	51	24.85	11.38	23.91	7
MAIN LO SETT TANK	Fr 31	Fr 36	57	51	29.35	11.38	23.91	7
NO1 CYL OIL STORE TANK	Fr 31	Fr 36	57	51	29.35	8.65	23.91	7
NO2 CYL OIL STORE TANK	Fr 26	Fr 31	57	51	24.85	8.65	23.91	7
G/E LO SETT TANK	Fr 29	Fr 29	11	10	23.95	6.83	23.91	0
G/E LO STOR TK	Fr 29	Fr 31	8	7	26.20	6.83	23.91	0
G/E LO PURI TANK	Fr 31	Fr 34	11	10	28.45	6.83	23.91	0
TUR LO STOR TANK	Fr 34	Fr 36	8	7	30.70	6.83	23.91	0
LO SUMP	Fr 27	Fr 43	70	63	30.70	0.00	1.80	50
Total			335	302				

DRAIN TANKS SPECIFIC DENSITY 1.0001/m³

DESCRIPTION	FROM	TO	VOLUME 100% m ³	WEIGHT 100% t	LCG Fwd of AP m	TCG PS+ m	VCG Above BL m	FS mom. t.m
BILGE TK	Fr 16	Fr 26	108	108	18.16	-0.47	1.95	125
BILGE WELL	Fr 17	Fr 20	7	7	15.80	1.36	2.95	5
OILY BILGE TANK	Fr 23	Fr 25	28	28	21.29	1.61	1.96	15
Total			143	143				

- GENERAL NOTES
- LONGITUDINAL CENTER OF GRAVITY (L.C.G.) IS RELATIVE TO FRAME 0.
 - TRANSVERSE CENTER OF GRAVITY (T.C.G.) IS RELATIVE TO CENTERLINE. PORTSIDE (PS) IS POSITIVE.
 - VERTICAL CENTRE OF GRAVITY (V.C.G.) IS RELATIVE TO BASELINE.
 - TANK FILLINGS OF CARGO WING TANKS WILL BE LIMITED TO COMPLY WITH MARPOL REGULATIONS.
 - FINAL TANK CAPACITIES OF TANKS FOR STORAGE OF CONSUMABLES WILL BE PROVIDED IN EXECUTION PHASE OF THIS PROJECT.
 - EXISTING TANKS WHICH WILL NOT BE USED AFTER CONVERSION ARE INDICATED AS VOID.
 - USE OF SIDE SHELL PROTECTION BY SANDWICH PLATE SYSTEM (SPS) OR USE OF VOIDS NOT DEFINITELY DETERMINED.
 - FW TANKS TO BE SPLIT INTO 2 TANKS EACH.

REFERENCE DOCUMENTS

ID	SBM PROJECT	SBM DOC. NUMBER	DESCRIPTION
1	SB82016	DNF02150	FPSO 1 - GN / IRS1 - GENERAL - ARRANGEMENT
2	SB82016	DNF02151	FPSO 2 - IRS2 - GENERAL - ARRANGEMENT ALT-1

MAIN DIMENSIONS

LENGTH OVERALL	331.00 m.
LENGTH BETWEEN P.P	314.00 m.
BREADTH	58.00 m.
DEPTH AT SIDE	30.30 m.
DEPTH AT CENTER	31.80 m.
DRAFT SCANTLING (MLD)	20.60 m.

ID	Date	Description of revision	Sto	Brj	Ake	Smc
P2	28-Apr-11	ISSUE FOR COMMENTS AND/OR APPROVAL				
P1	28-Mar-11	PRELIMINARY ISSUE FOR INFORMATION				
P1	21-FEB-11	PRELIMINARY ISSUE FOR INFORMATION				

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PETROBRAS

Client: **PETROBRAS BRASILEIRO S.A. - PETROBRAS**

Project: **Pilot 4 & 5 Tender**

Title: **VESSEL 1 - GN / IRS1 & IRS2 TANK CAPACITY PLAN**

DRAWING ASSEMBLY: N/A

Scale: 1:500

Project Number: SB 82016

Client Ref: DNV02101

Sheet No./Sheets: 1 / 1

Revision: C1