Facilities Specification



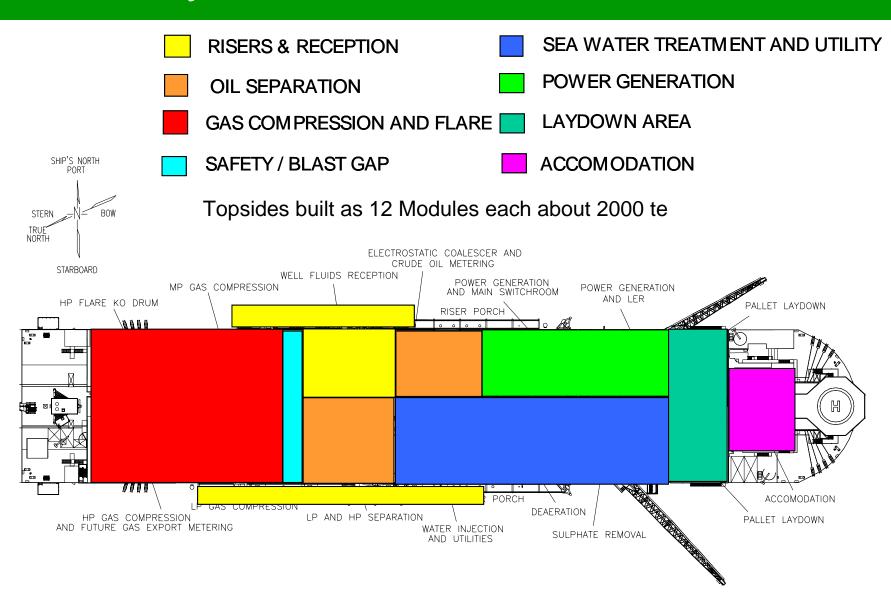


Oil Rate	220 / 200 (peak/av)				
SRP (seawater)	400 mbd				
Power	4 GTs (103 MW)				
Gas Compression	330 mmscf/d				
FPSO length	310m				
Gas Injectors	3 available				
Initial Wells	43				
Spare well slots	25				

- FPSO with subsea wells, flowlines and risers
- Initial production from 5 fields
- Oil exported to tanker via remote offloading
- Gas will be re-injected into the reservoir until Angola LNG is available

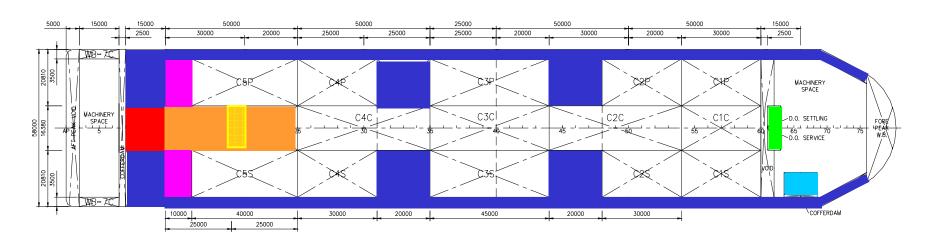
FPSO Layout

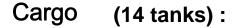




Hull Design







Off-spec Oil/ water:

Slop Tanks:

Ballast:

Potable water:

Methanol:

Diesel:

Flowline displacement Fluid:

1,727,000 bbls (98%)

128,000 bbls (98%)

65,000 bbls (98%)

935,000 bbls (100%)

8,430 bbls (100%)

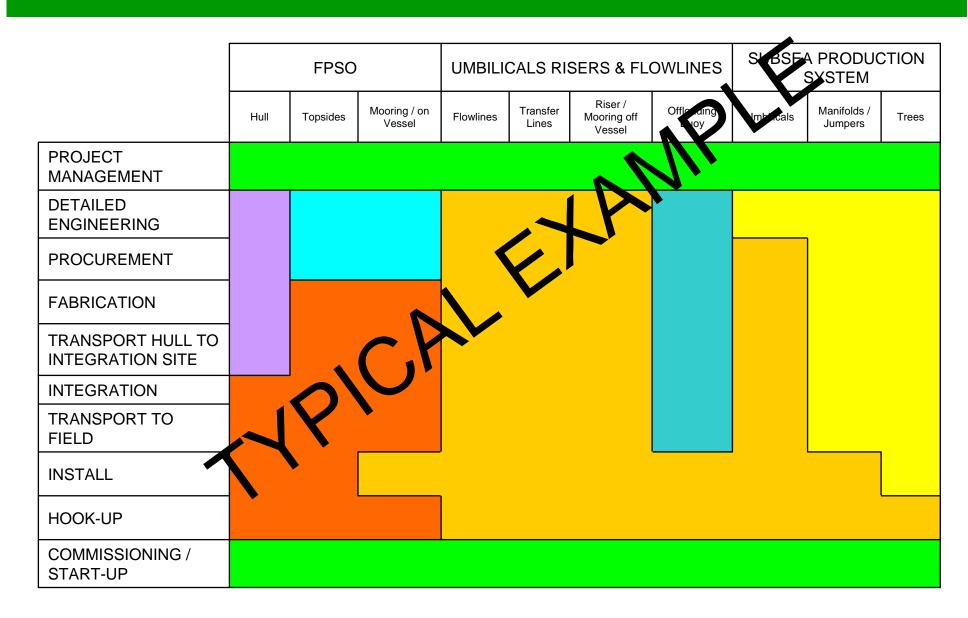
26,000 bbls (98%)

14,000 bbls (98%)

32,000 bbls (98%)

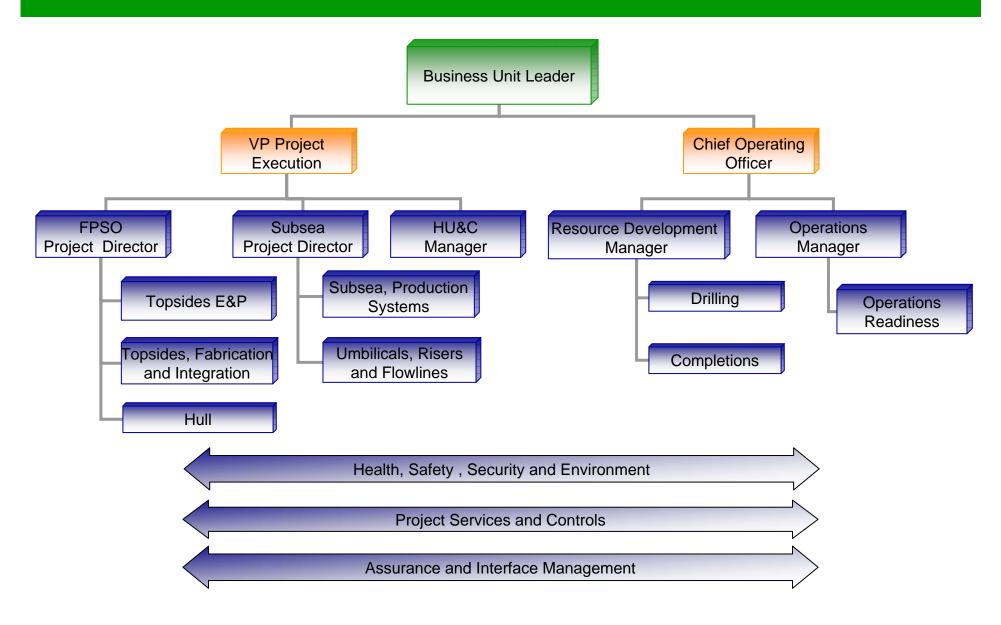


Facilities Contracting Strategy



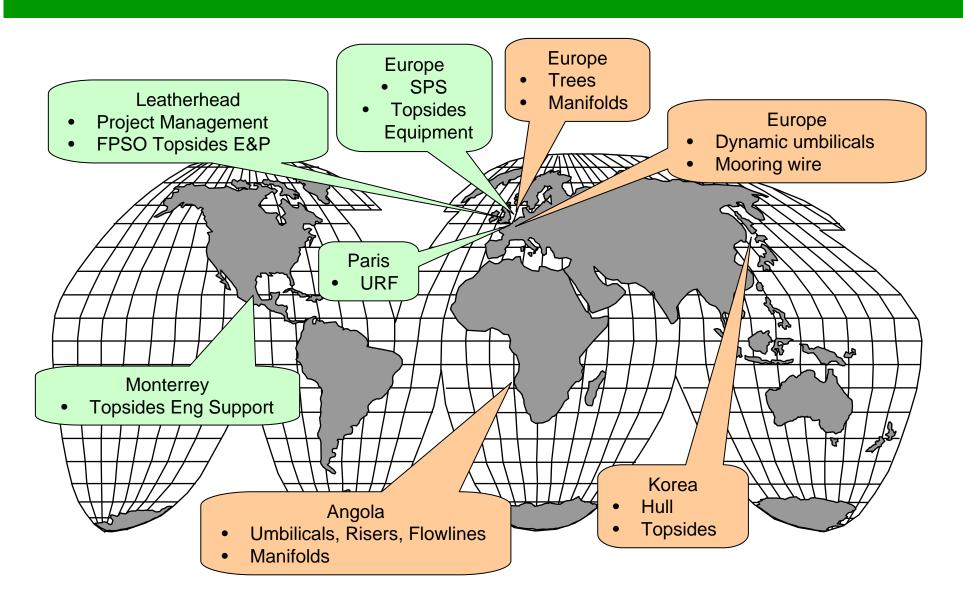
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Project Organisation



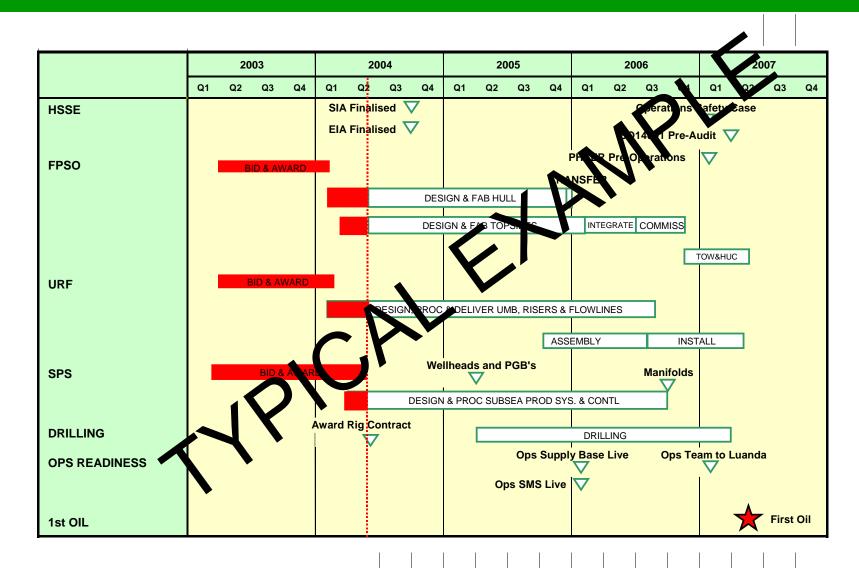


Engineering and Fabrication Sites



Project Schedule





Assurance Processes

bp

Assurance Framework

Level	Objectives	Scope	Activities and Processes				
0	High level assurance for and by BP management and partners	Block 18	 Capital Value Process BP management and third party reviews External Benchmarking GHSER Audits Project Risk Review 				
1	Project assurance and risk mitigation	Greater Plutonio Facilities	 Project HSE Reviews Quantitative and Qualitative Risk Assessment Independent Project Reviews (i.e. Peer Reviews) Interface Management Management of Change Regulatory Compliance 				
2 & 3	Detailed design verification and quality control	FPSO, SPS, URF	 Contractor Management Audits Design checks Verification and classification QA/QC plans including factory acceptance testing 				

Assurance Processes

bp

Risk Management System

Level 1

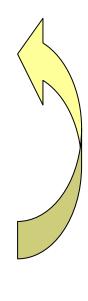
"No Project Wrecks" assessment

Level 2

- project HSE reviews
- schedule risk analysis (PREDICT)
- cost risk analysis (BRISK)
- roll-up of level 3 risk matrices

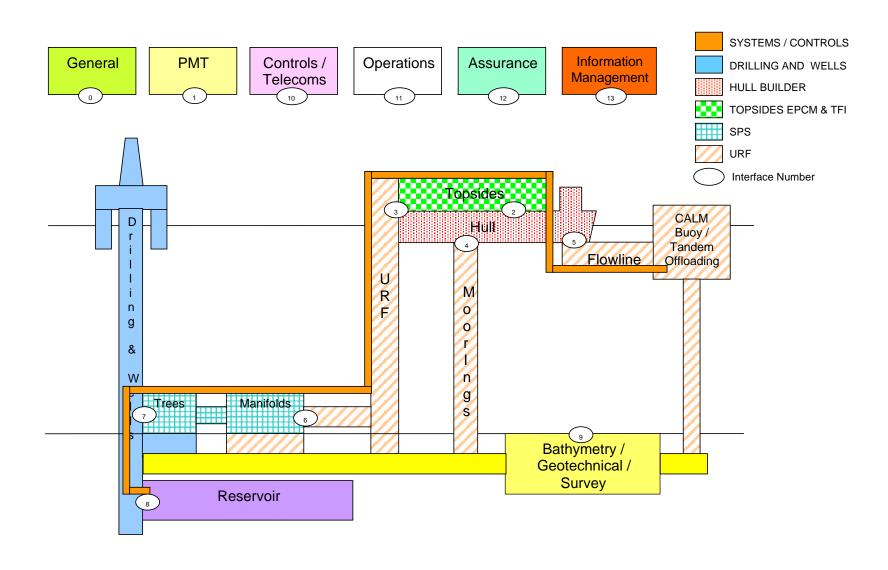
Level 3

- design HAZOPs, HAZIDs etc.
- qualitative risk management process (risk register and mitigation plans)
- technology risk assessment process (TRAP)



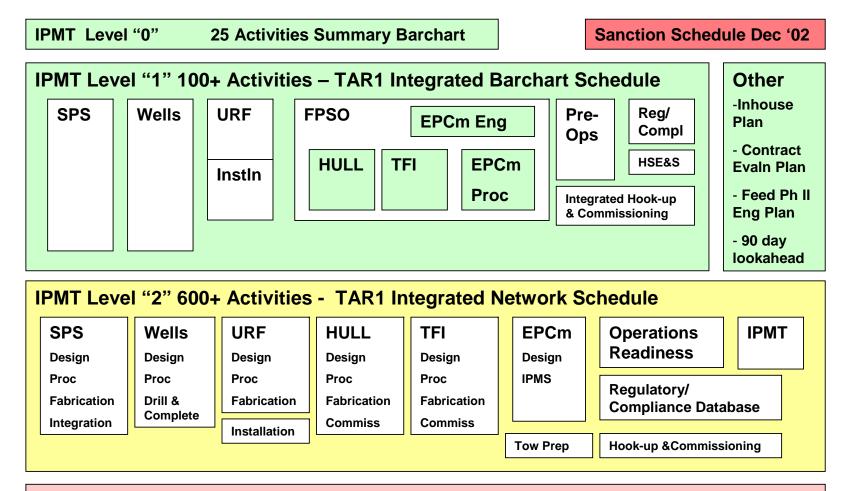
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Interface Management





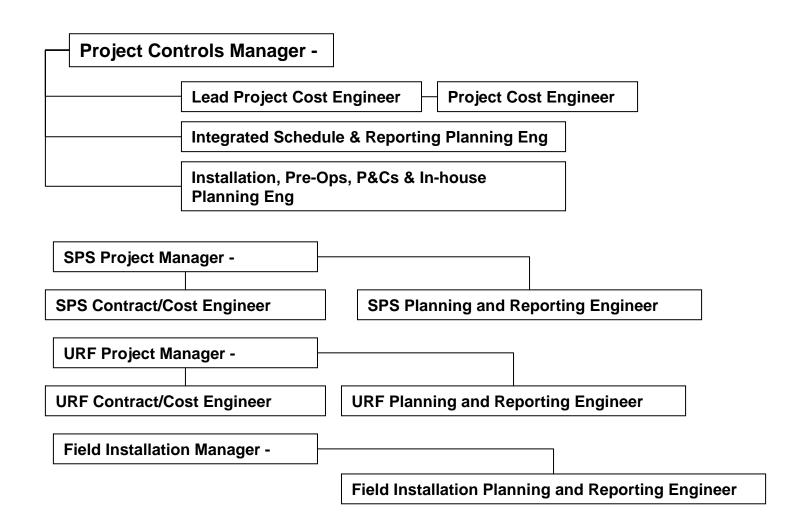
Planning Structure - Level 0 to 5



Contractor Level 3/4 Schedules and Level 5 Progress measures which must rollup to progress in the Level 3 Contract Approved Schedule

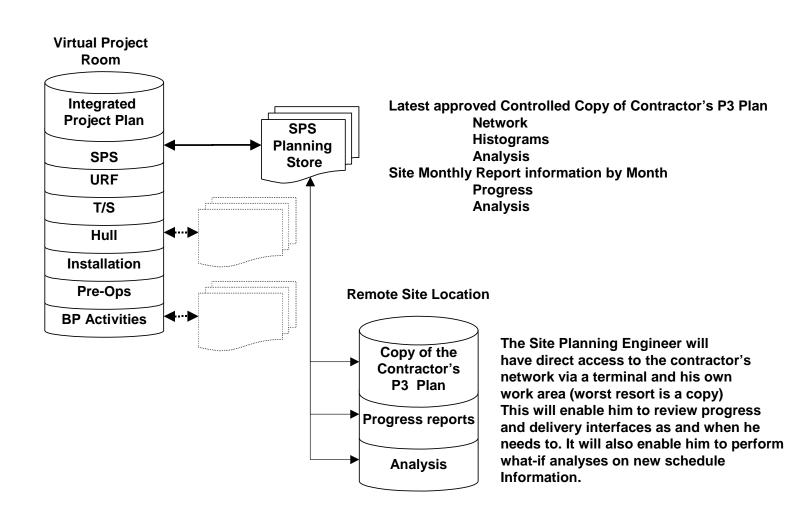
Planning Organisation





Access and Storage





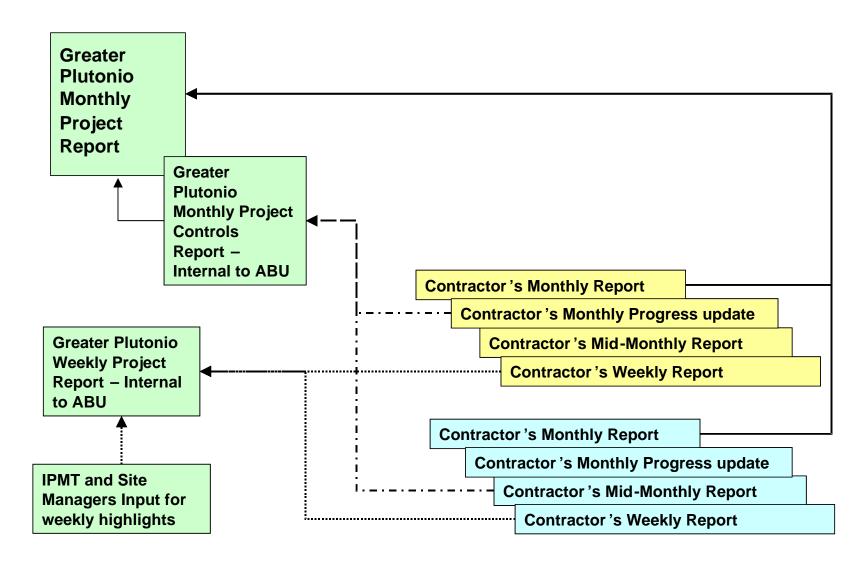
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Schedule Change Control

- The approved FPSO, SPS, Wells, URF Schedules will be frozen and rolled directly into the Integrated Schedule
- A major change in scope and schedule will be handled by the Management of Change (MOC) process. On approval of the MOC the Integrated schedule will be revised and schedule revision number increased.
- The original Integrated schedule will be stored for comparison with the latest revision.
- Each month the progress for each activity will be updated and the critical path analysed. On the latest approved Integrated Schedule including the changes.



Greater Plutonio Reporting Hierarchy





Project Progress Weightings

T/S Design		g for Progress to 1st Oil T/S Procurement		HULL		TFI		Facilities Total	Total
Facities Wtg	Project Wtg	Facities Wtg	Project Wtg	Facities Wtg	Project Wtg	Facities Wtg	Project Wtg		
				000		***		0.00/	000
7%	5%	9%	7%	10%	8%	13%	10%	39%	300
Detailed Design	80%	Procurement Effort	10%	Initial Deliverables	10%	Initial Deliverables	15%		
Follow-on Eng	20%	Ш	50%	Design	15%	Shop drawings	10		
		Packages	40%	Procurement	32%	Procurement			
				Fabrication	43%	Fabrication	38%		
	4000		4000		4000	Integration	7%		
SPS	100%	UDE	100%	Tour Heat Up 0 Co	100%				-
	URF		B	Tow, Hook-Up & Commiss		─∧	N.		
Facities Wtg	Project Wtg	Facities Wtg	Project Wtg	Facities Wtg	Project Wtg		·		
22 %	17%	25 %	19%	10%	7%			57%	43%
nternational Build	70%	Initial Deliverables	3%	Tow	7%				
Manifold Build In-Country	9%	Design	10%						
In-Country Build	21%	Procurement	36%	Hull Onshore Commissioning	30%				
		Fabrication	20%	TFI Onshore Commissioning	36%				
		Installation	26%	Offshore Hook-up	7/0				
		Testing & Comm	5%	Offshore commissioning	8%				
	100%		100%	•	100%				
Management									
Facities Wtg	Project Wtg								
4%	3%							4%	3%
Interfaces	25%								
Assurance	25%								
Permits & Consents	25%								
HSSE	25%								
	100%		/			Facilities Out	well Meighting	4000/	
Wells to 1st Oil		Or Rea iness				Facilities Ove	rall Weighting	100%	769
Wells to 1st Oil	14%	Ore Rea liness	10%						249
									24
Well Design Well Procurement	5% 5%	Pecruit/Train/Competency	20% 10%			**			
vveii Procurement Cobalto	26%	Operations Contracting	10%			***			
Plutonio	51%	Data Management System							
Gallio Gallio	13%	Procedures/Documentation							
Dromio Dromio	0%	Integrity Management	10%						
Paladio	0%	Performance Management	10%						
		Proj/Start-up/Comm Suppo							
		Post First Oil Tie-ins	5%						
	100%		100%						
						Total Project Weightings			100