



ANALYSING THE BOTTOM LINE: OFFSHORE ACCOMMODATION OPTION COMPARISONS

**19 April 2016
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ANALYSING THE BOTTOMLINE: OFFSHORE ACCOMMODATION OPTION COMPARISONS

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A.1 OBJECTIVES

1. Protect Personnel & Equipment
2. Preserve Asset Book Value :
 - Insurance [Code Compliance]
 - Good Design & Quality Assurance
3. Maintain Production Operation
 - Simple & Reliable Facility
 - Minimize Loss of Operating Man-hours
 - Safety & Emergency Back-up
4. Complete Work as Scheduled
5. Minimize Risks

A.2 OPTION ACCOMMODATION COMPARISON

Location : Accommodation Facilities

Hazardous Materials	Sector	Safe	Hazardous		
GAS *Hydrocarbon *Carbon Monoxide *Hydrogen Sulfide	Marine	Crew boat OSV	*Drillship *FSO *FPSO	Zone1	Zone2
TOXIC METALS * Mercury * Arsenic	Fixed Leg Structures	*Lift Boats	*Wellhead Platforms *Central Processing Platforms *Jack –up Rig	GAS “Always” Present	GAS “Sometimes” Present

A.2 OPTION ACCOMMODATION COMPARISON

Offshore Accommodation		Personnel	Equipment
Floaters	Crew Boats	<100	
	Workboats /Lift Boats	<100	
	Accommodation Barge	>100	
	Drillship	~100	Control Room Laboratories Workshop
	Semi Sub	>100	
	FSO/FPSO	<100	
Hybrid	Jack-up	100-200	
	MCP/Mopu	100-200	
Fixed Leg Platforms	CPU	100-150	
	WHP	Temp-Refuge	

Legend:



Non-Hazardous



Hazardous

A.3 ENVIRONMENTAL ELEMENT

Weather Condition

- *Temperature
- *Wind
- *Ice/Hail
- *Rain /Humidity

Fire Risk & Control

Noise & Vibration Control

Heat Source

- *Exhaust
- *Flares

Escape & Survival

Hazardous Gas

- *Reference Chart

Blast Resistance

- *Identify Source

Salt & Corrosion

A.4 RISK CONTROL

A. REQUIREMENT & COMPLIANCE:

1. Owners
2. Classification Society
3. National & Local Rules
4. Safety

B. ENDORSEMENT / VERIFICATION / CERTIFICATES:

1. Design Review
2. Inspection and Testing
3. Surveyors Report
 - 3.1 Factory /Shipyard
 - 3.2 Hook-up and Commissioning
4. Third Party
 - 4.1 Classification Society
 - 4.2 Manpower

A.5 EMERGENCY SYSTEMS

1. Detection and Alarm
2. Public Address / Gen Alarm
3. Escape
 - 3.1 Access Hatch
 - 3.2 Walkways
 - 3.3 Life Buoys
 - 3.4 Life Rafts
 - 3.5 Life Boats
4. Personnel Protection
 - 4.1 Rescue
 - 4.2 Heat Fire
 - 4.3 Breathing Apparatus
5. System Shutdown
6. PLC Controlled
 - 6.1 Fresh Air + Exhaust
 - 6.2 Pumps/Compressor/Turbines
7. Fire Fighting Systems
 - 7.1 Potable Fire Extinguishers
 - 7.2 Sprinkles (Dry or Wet Riser)
 - 7.3 Inert Gas System: Nitrogen Gas
 - 7.4 FM 200 System

B. KEY DESIGN FEATURES

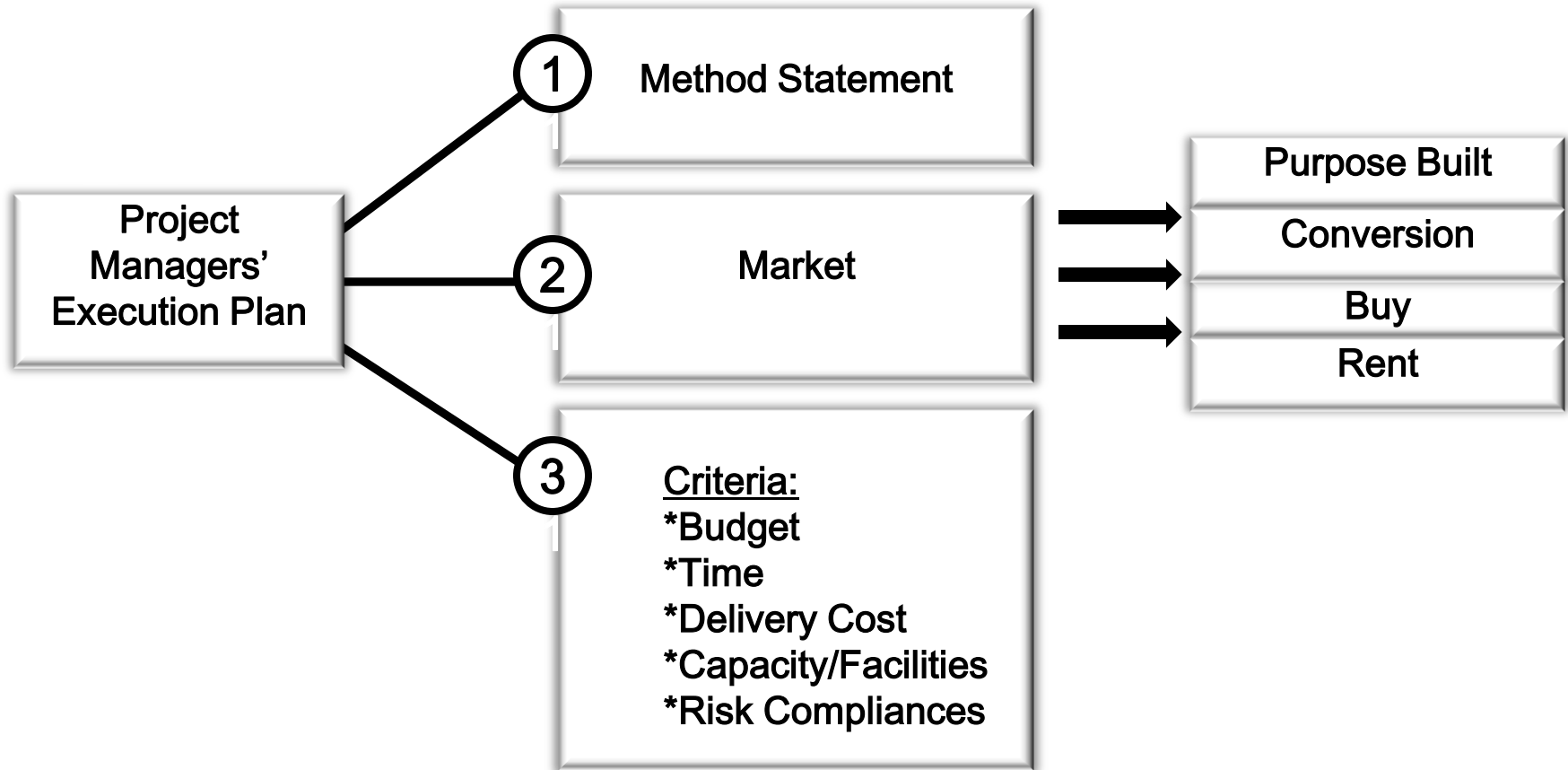
- ✓ Seating/Sleeping
- ✓ Smoker Cabins
- ✓ Mess Hall/Galley
- ✓ Laundry
- ✓ Recreation/Prayer Room
- ✓ Offices/Meeting Room
- ✓ Helipad/Foam/Refueling
- ✓ Radio & Control Room
- ✓ Work Shops
- ✓ Emergency Escape
- ✓ Toilet/Changing Room
- ✓ Cold Room/Dry Store
- ✓ Staircase /Walkways



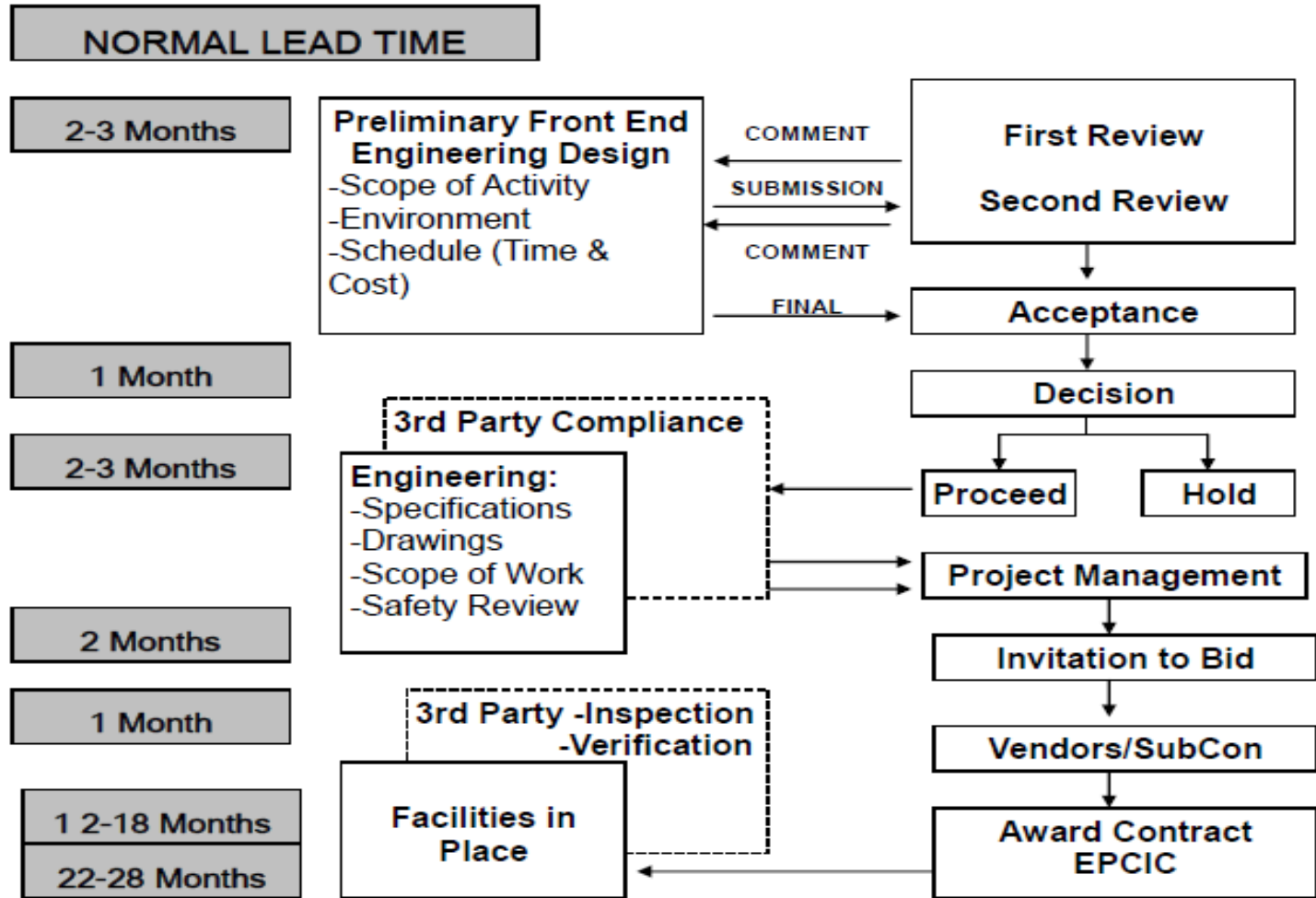
C. SELECTION CRITERIA

1. **Available Facilities** : Shipyards/Accom Specialists
2. **Lifespan** : Operating Contract Period+Extension+Exit Plan
3. **Location** : Area of Operation
4. **Project Timeline**
5. **Economics**:
 - 5.1 New Build
 - 5.2 Upgrade
 - 5.3 Conversion
 - 5.4 Rentals/Lease Option
6. **Risk Analysis**

C. SELECTION CRITERIA



C. SELECTION CRITERIA



D. COST EFFECTIVE SOLUTIONS

1. Management : Experienced & Reliable Project Team

2. Approved Vendors List

2.1 Experience/Reference

2.2 Capability

2.3 Facility / Capacity

2.4 Financial

2.5 Supply Chain

3. Project Timeline

3.1 Full Review & Risk Analysis

3.2 Basis of Design

- Facility : Permanent or Temporary

- Capacity : Normal or Peak

3.3 Project Quality Plan

3.4 Project Execution Plan

3.5 Safety - HSE Plan

E. HOW IMPORTANT IS QUALITY ACCOMMODATION?

E. IMPORTANCE OF QUALITY ACCOMMODATION

Enclosures Offer Protection & Security

1. Remote Locations
2. Operations : Day & Night , 7 Days a week
3. Extreme Conditions
 - 3.1 Noise
 - 3.2 Weather
 - 3.3 Hazardous Area :
 - Toxic Vapors
 - Flammable Gas
 - Corrosion
 - 3.4 Fire + Explosive Risks

E. IMPORTANCE OF QUALITY ACCOMMODATION

DESIGN:

- Safe & Efficient
- Compliant
- Maintenance
- Emergencies & Back-up

MATERIALS:

- Approved Vendor List

REQUIREMENTS:

1. Maintain Full Concentration at Work
2. Feel Safe to Rest in Harsh & Hazardous Environment
3. Comfortable
4. Undisturbed Sleep (Noise / Vibrations)
5. Clean-up (Hands / Face / Body)
6. Laundry (Clean Clothes/ Bed Sheets /Towels)
7. Healthy, Clean and Safe Meals and Drinks

E. IMPORTANCE OF QUALITY ACCOMMODATION

FACILITIES

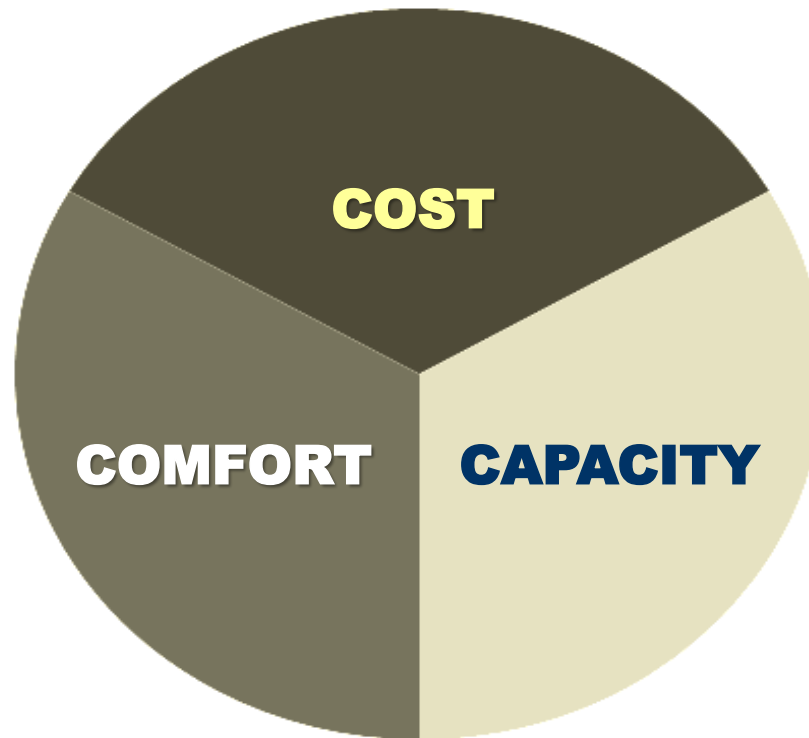
[Determined by Owner / Operator]

	<u>TRAVEL</u>	<u>ROOMS</u>	<u>EXPAT</u>	<u>LOCAL</u>
▪Management & Staffs ▪Specialists & Consultants	▪Helicopter	▪Single	✓	✓
▪Tradesmen & Labor	▪Crew Boat	▪Double		✓

F. BALANCING COST / COMFORT / CAPACITY

BALANCE

Fit for Purpose/Market Conditions



F. BALANCING COST / COMFORT / CAPACITY

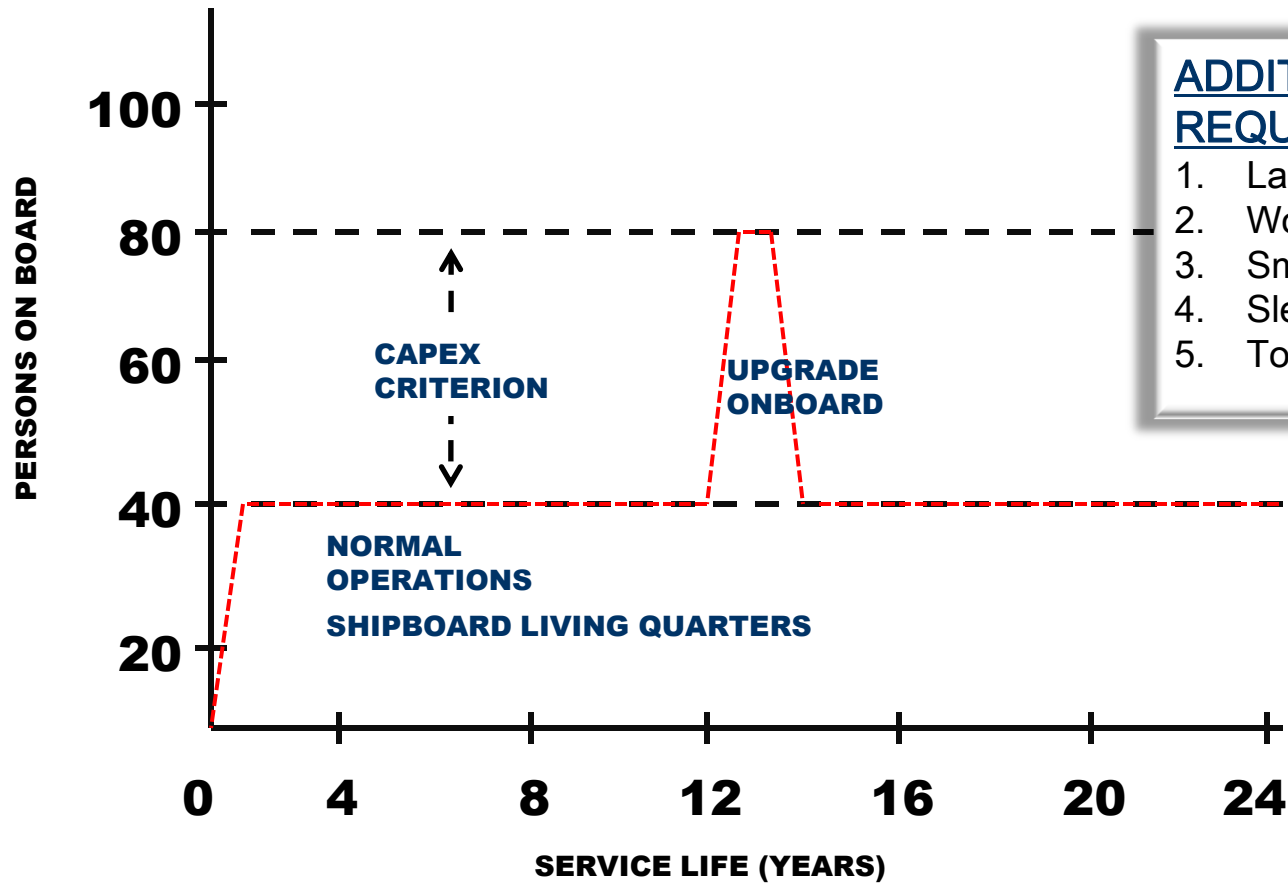
CONCLUSION:

“STANDARD & QUALITY”

Determined by:

1. Location
2. Scope
3. Type of People Employed
4. Duration of Project

TYPICAL FPSO ACCOMMODATION



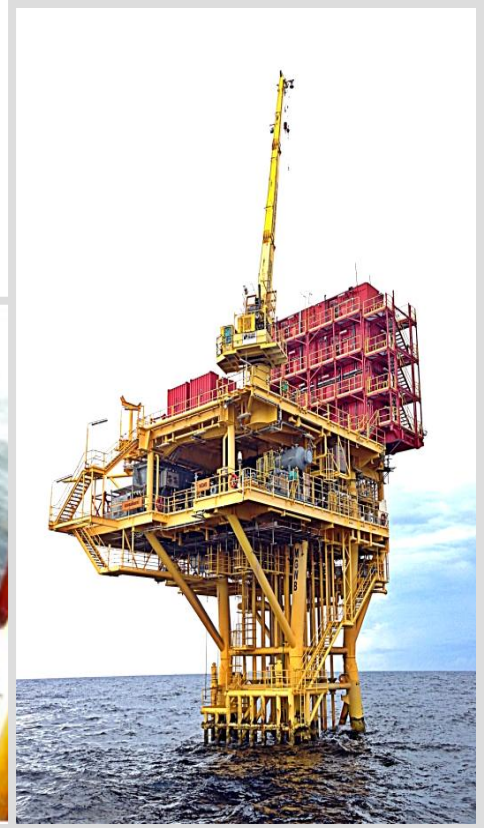
ADDITIONAL FACILITIES REQUIRED:

1. Laboratory
2. Workshop
3. Smokers Cabin
4. Sleeper
5. Toilet

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**24 MAN OFFSHORE TEMPORARY LIVING QUARTERS FOR
CHEVRON MORAGOT WELLHEAD PLATFORM, A-60 FIRE RATED,
HAZARDOUS AREA – ZONE 2**

**SCOPE:
PROVIDE PORTA CAMP AND SERVICE
SUPPORT TO MORAGOT AREA**



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OIL SEARCH PNG – LIVING QUARTER
KUMUL TOPSIDES REJUVENATION PROJECT
ACCOMMODATION REFURBISHMENT SERVICES

SCOPE:
SITE AUDIT, DESIGN, PROCUREMENT, PACKING &
TAGGING, OFFSHORE INSTALLATION & COMMISSIONING



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Thank you.