Atoll Development project, offshore Egypt

How collaboration between all stakeholders and early commitment allowed to turn a fast track project into a success story?

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When I was a child ....
Why is it a success story?

- Video from BP (no sound)

- Proud
- Vital for Egypt
- Safe
- Time
- Cost
From END 3 to ATOLL with PhPC

Building a TRUSTFULL partnership

March to Aug 2016

July 2015 to Oct 2016

Aug 2016 to Dec 2017
Project description

- Client: Pharaonic Petroleum Company (PhPC)

- Connect 3 off new wells:
  - To existing facilities for Gas Export
  - To shore for control

- EPCI of:
  - 43 km of 20” Carbon Steel pipe @ 930m to 100m WD
  - 3 km of 20” Clad pipe
  - 3 x 2km of 10” Flexible pipe @ 930M WD
  - Main Umbilical 111km long from 930m WD to shore
  - Trenching umbilical for 85km
  - Installation of XTs & other structures with diving operations

VERY DIVERSIFIED SCOPE
Atoll project .... from discovery to 1st gas

- Gas Discovery: March 2015
- Tender Phase
- Engineering
- Procurement
- Fabrication
- Operations
- First Gas

EPCI Project
VERY CHALLENGING SCHEDULE
1st gas: 16 months after Award

33 months
Tender ... and Award

• 1st gas in December 2017 is critical
• Challenging and possible

• BUT ....
  ✓ No float
  ✓ Projects are always late ....
Tender ... and Award

- 1st gas in December 2017 is critical
- Challenging and possible
Project Motto shared by ALL

- Client team
- Subsea 7 project team
- Suppliers
- Subcontractors
- Vessels personnel onboard

ATOLL project: an opportunity to demonstrate our capabilities to achieve an excellent performance all along on optimised delivery schedule and with no compromise to safety.

2 major workshops with attendees from ALL were organised at early stage of the project:
engage and share high standards HSE best practices
Key success factors

• Same client team and same team in Subsea 7 as END 3 project

• Understanding Client priorities and ways of working

• Early mobilisation of Subsea 7 team around 3 critical packages:
  ➢ Pipelines & structures,
  ➢ Flexible lines,
  ➢ Umbilicals

• Start design and installation engineering in parallel

• Early engagement with critical suppliers (valves, forgings, umbilicals ...) and fabrication yard in Egypt
Key success factors

• Close interface between engineering, supply chain, fabrication & operations team

• Qualified standard design & field proven solution privileged
  ✓ OTC paper: Preventing Unexpected Walking Induced By Interaction Between Acceptable Uncontrolled Buckles And Spans

• Strong focus in preparation of Offshore operations starting 10 months after project award.
  ✓ State of the art vessels on critical activities (pipes, flexible & umbilical, diving)
  ✓ Flexibility in offshore operations to adapt to changing shutdown constraints
ALL stakeholders worldwide

- More than 1,350,000 manhours
- More than 18 marine units
Fabrication in Egypt - in less than 1 year
Operations – 18 marine units – 2 campaigns: 1 month + 4 months

Success result from early preparation and coordination

Delivery of ATOLL 1, 2 & 3: 02 Dec 2017
How collaboration between all stakeholders and early commitment made a fast track project a success story?

✓ **Positive, dynamic, strong and fair** relationship with:
  - client,
  - Subsea 7 team and personnel onboard vessels
  - suppliers
  - subcontractors

✓ **Early Preparation** and **Coordination** of onshore fabrication and offshore operations

✓ **Early Engagement** from **ALL** sharing the same objective and committed to deliver safely and on schedule

One common success story

All about people.....
Atoll Development project, offshore Egypt

THANK YOU