



**The Shell Petroleum Development Company  
of Nigeria Limited  
Operator for the NNPC/Shell/Agip/Elf Joint Venture**

**EA Field**

**Improving time writing based service delivery offshore**

Version: 1.0

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**Document Status Information**

## DOCUMENT CONTROL

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### Ownership and Authorisation

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### Retention Date

#### .Review and Update

This Document shall be subject to a 36 monthly review and update

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## 1.0 DEFINITIONS

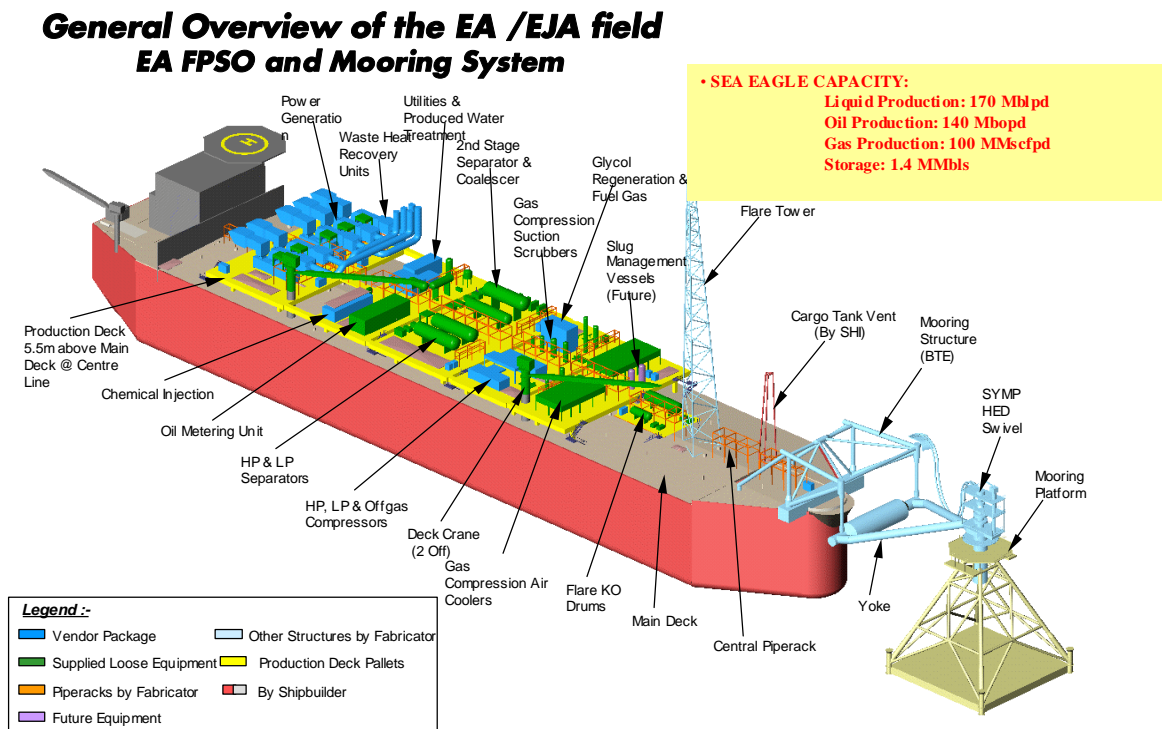
Bbls/d	Barrels per day
DP	Drilling Platform
FPSO	Floating Production Storage and Offloading
FSR	Field Site Rep
HP	High Pressure
KBOPD	Thousand barrel of oil per day
LP	Low Pressure
Mmscfd	Million standard cubic feet per day
OGGS	Offshore Gas Gathering Station
OEM	Original Equipment Manufacturer
SCiN	Shell Companies in Nigeria
SNEPCo	Shell Nigeria Exploration and Production Company Limited
SSP	Site Specific Procedure
TOR	Terms of Reference
TWBSD	Time writing Based Service Delivery

## 2.0 INTRODUCTION

The Sea Eagle is a floating production and offloading (FPSO) facility located offshore Nigeria in shallow waters.

The EA production system comprises of three (3) wellhead platforms tied back to the Sea Eagle FPSO in shallow water offshore Nigeria. The field is operated by SPDC and has been in production since 2003.

Oil is produced on the 3 wellhead platforms DP-A, DP-B and DP-J and flows back to the FPSO through either HP or LP production manifolds. There are gas lift facilities on the DP-A and DP-B platforms, but currently gas lift is not required, as the wells can free flow. As water cut increases gas lift will be commissioned to maintain oil production from these wells. Oil, gas and water are separated on the Sea Eagle FPSO with gas being compressed up to around 130 bar and exported in the OGGS pipeline to Bonny, see the general overview of the FPSO below.



In a bid to improving offshore work execution and service delivery efficiency as part of SCiN's Fit for the Future continuous improvement initiative, it is imperative to introduce an efficient and easy to use time-writing based service delivery (TWBSD) tool.

### 3.0 OBJECTIVE

The objective is to improve time-writing based service delivery on EA by:

- Reviewing existing processes and practices of offshore work execution and service delivery on sea eagle
- Implementing smart and easy to use time-writing/tracking tool for offshore based service delivery activities such as but not limited to OEM and FSR- call-out for corrective/preventive maintenance including inspection work.

### 4.0 SCOPE

The work scope involved the following:

- Review existing practice and process for offshore activity tracking
- Agree work flow and process to achieve improved offshore work/service delivery
- Develop recommendation and report out

### 5.0 TEAM MEMBERS

No	Name	Role
1	Olusesan Gbenro	Review Team Lead
2	Dele Adigun	Operations Manager
3	James Agwulonu	Production Focal Point
4	Akintunde Atanda	Competitive and Business Improvement Manager

## 6.0 METHODOLOGY

The strategy involved gathering information by checking existing systems and data /documentation relating to the current practice. Series of online/face-to-face engagements were carried out to understand the existing end-to-end process/work flow and likewise engage offshore and onshore support team such as planners and work preparers. Gaps were identified and recommendation was developed showing areas of improving time based service delivery offshore.

## 7.0 FINDINGS

- Poor Work Preparation
  - No proper and/or early handshake between contract holder, activity owner and host offshore
  - No clarity ((Insufficient information) around scope to be executed offshore
  - No smart metrics for activity progress measurement offshore
- No Vendor Equipment Tracker
  - Vendor offshore and equipment not on board
  - Activity owner does not keep everyone in the loop when Mobilizing and Demobilizing equipment
  - Activity owner not having end-to-end eye on OEM equipment
  - Unavailability of tools, materials needed for offshore work execution when required
- Operations team not involved early in work preparation/scheduling.
- Schedule blotted with too much float to accommodate inefficiency.
- Observed behavioral/culture of spend rather than value

## 8.0 RECOMMENDATION

- **OEM/Vendor Mob:** Develop smart vendor/OEM readiness check tool which serves as input to ST-IAP. As a go-by, the existing readiness checklist should be put into use.
- **OEM Equipment Mob:** Implement end-to-end tracking tool for effective mobilization and demobilization of OEM equipment
- **Visual Management:** Make value eroded (e.g. Cost) visible to activity owners and stakeholders. Issue a value eroded report
- **Database of Activity Norms.** Start database of offshore activity norm and compare activity performance against norms. This will also be useful during schedule challenge.

- **Recognition:** To encourage repeat of good behavior, recognition should be given to activity owners that have deliver business case safely, within schedule and cost and when compared with the norm, performance comes up as best-in-class. FFF/WWW recognition scheme can be used.