



The Petroleum  
Oil and Gas Corporation  
of South Africa (Pty) Ltd  
Reg. No. 1970/008130/07  
151 Frans Conradie Road,  
Parow, 7500  
Private Bag X 5 Parow, 7499  
Republic of South Africa  
Tel +27 21 929 3000  
Fax +27 21 929 3266

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## SCOPE OF WORK

**ENQUIRY NO: AHT0000025712**

**DESCRIPTION: APPOINTMENT OF AN APPROVED BY DEPARTMENT OF MINERAL RESOURCES AND ENERGY CERTIFYING AUTHORITY FOR THE CERTIFICATION OF FITNESS OF FA PLATFORM INSTALLATION**

### **1. INTRODUCTION**

#### **1.1. General**

The PetroSA FA Platform is a manned production platform located in the Indian Ocean approximately 85km from Mossel Bay, Republic of South Africa. The water depth is approximately 105m.

PetroSA FA Platform is required to appoint a Third Party Inspection Authority, here called Certifying Authority, as contemplated in the Mine Health and Safety Act Regulations, Chapter 31, as amended.

#### **1.2. Brief Operational Characteristics**

The FA Platform is designed to produce up to 230 000 m<sup>3</sup>normal/h of dry gas and 119m<sup>3</sup>/h of condensate. The hydrocarbons production feedstock flows from

Platform & Subsea Wells to FA Platform where it is separated into three different streams for further processing i.e. Gas, Condensate and Produced Water.

The gas is dried as much as possible, and produced water is separated from the condensate, prior sending gas and condensate to GTL Refinery in Mossel Bay for further processing. The dry gas is compressed to a higher pressure that enables the transfer to GTL Refinery via 18" export pipeline laid on the seabed, and Condensate is pumped to GTL Refinery via separate 8" export pipeline also laid on the seabed. The produced water is further treated on board to safe levels before discharging to sea. Each of the two export pipelines is provided with an ESD Valve within an explosion proof/fire resistant steel housing located on the cellar deck AT FA Platform.

### **1.3 Installation and General Arrangement**

The FA Platform Plan Dimensions are approximately 75m long by 48m wide. The Jacket is secured to seabed by 24 piles, each 2 meters in diameter, driven 120 meters into seabed. The Platform consist of an eight-leg steel jacket, which projects 18.85m above LAT. A module support frame (MSF) is located on top of the jacket; the cellar deck is integral with the MSF.

Four production and utility modules are located on the MSF (M01, M02, M03 and M04). The are two main deck levels in these modules, Production Deck and Mezzanine Deck. The Gas compression module, M05, is located on top of M01 at the West end of the platform. EM Field reception modules R01 and R02 are situated on the west side of M01

The drilling facilities are contained in two modules, M06 and M07. M06 is located on top of M02 and M07 is located on top of M03, even though there have not been any drilling activities for more than 20 years. The accommodation module, M08, is located at the East end of the platform on top of M04. A helideck (H09) is provided on top of M08. A flare boom (F10) is provided on the South face of the platform, cantilevered off module M01.

## **2. SURVEYS AND INSPECTION SCOPE**

### **2.1 Overview**

To maintain the Certificate of Fitness (COF) of the installation, periodic survey are carried out to the satisfaction of the Certifying Authority. These are controlled by PetroSA Offshore Support Division in Voorbaai. There are mainly two Surveys i.e. Major Surveys and Annual Surveys. An additional survey may be required resulting from any modification, damages, and major repairs.

#### **2.1.1 Major Surveys**

Major surveys are undertaken for the purpose of renewing the COF of the installation and in accordance with Chapter 31 of the Mine Health and Safety Act Regulations, as amended.

The frequency of this survey is every 5 years after the issue of initial COF, dated 25<sup>th</sup> March 1991. The latest date of issue for the 5 yearly COF is 25<sup>th</sup> March 2021.

It is the intention of the Owner to carry out the necessary survey work as a continuous Major survey, that is all survey work, both structural and equipment orientated, will take place on an ongoing basis over a five year period from the commencement of the COF.

### 2.1.2 Annual Surveys

Annual surveys are also required as specified in the FA Platform Statutory Operations Manual. The purpose of the annual survey is to provide reasonable evidence that the installation and its equipment continue to comply with the requirements of Chapter 31 of the Mine Health and Safety Act Regulations.

### 2.1.3 Additional Surveys

The purpose of additional survey is to examine modifications, damage, and subsequent repairs to ensure that the COF is still applicable. In the case of modifications, the additional survey shall cover the whole of the modification and any adjoining structures likely to have been affected by the change.

Wherever possible, modifications will be planned so that the required additional survey takes place at the same time as the Annual Survey.

## 2.2 Detailed Survey Scope

PetroSA conducts their routine maintenance in accordance to the Original Equipment Manufacturer standard and records are kept in the central applications program called SAP.

The Certifying Authority shall examine the records in relation to the Maintenance, Operation and Assurance Procedures, to verify they are in line with the procedure and standards, status and effectiveness, validity of records.

### 2.2.1 Requirements to be performed by Supplier

The Supplier must be approved by the Department of Minerals Resources and Energy as a Certifying Authority to conduct surveys and assessments, and to be able to certify FA Platform as fit for any of the purposes referred to in the Mine Health and Safety Act regulations, at the satisfactory of the Certifying Authority.

### **2.2.1.1 Structural Survey**

The Certifying Authority shall examine the condition of the installation to their satisfaction. The extent of the survey consists of a close visual examination of the upper structure down to and including the splash zone.

**Particular attention is paid to the following items:**

- a) Extent and thickness of Marine growth.
- b) Corrosion
- c) Impact or other accident damage
- d) Helideck
- e) Walkways and Handrails, Emergency Escape routes
- f) Accommodation Modules
- g) Anti-pollution systems
- h) Drilling equipment
- i) Flare Boom
- j) Crane and associated equipment
- k) Drains and venting
- l) Any alterations to deck weights

In addition to the survey activities, PetroSA will provide, where applicable, any

- a) Above water Structural Inspection Report
- b) Platform Settlement Survey
- c) Underwater Structural and Equipment Report

### **2.2.1.2 Mechanical Survey**

The Certifying Authority shall conduct a general assessment on the physical equipment and particular attention given to essential systems and auxiliary machinery.

**The scope of the survey embraces but not limited to the following:**

- a) Rotating and Reciprocating Equipment
- b) Pressure Vessels and Pressure Safety devices
- c) Calibration and Test records
- d) Lifting Equipment
- e) Process and general piping
- f) HVAC systems

### **2.2.1.3 Electrical Survey**

The Certifying Authority shall conduct a general examination on electrical equipment in hazardous zones for visual suitability, and that the integrity of the equipment is not impaired.

Electrical machinery and equipment are generally examined under operating conditions, where possible. These includes, but not limited:

- a) Main Power Source
- b) Emergency Power Sources
- c) Switchgear and associated circuits
- d) Illumination in accommodation area, walkways and plant
- e) Emergency Lighting
- f) Calibration and Test records

#### **2.2.1.4 Fire Detection, Protection and Extinction Survey**

The Certifying Authority shall conduct a general examination on the Fire equipment and machinery and any arrangements made for detecting, protection and extinction of fire.

Records and proof of operation shall be to the satisfactory of the Certifying Authority, with focus to the following:

- a) Fire Fighting Machinery and Equipment
- b) Fire and Smoke detection equipment
- c) Records of calibration and certification
- d) Fire Suppression systems
- e) Qualification of Fire fighting team

#### **2.2.1.5 Lifesaving equipment, Radio communication and Navigation Survey**

The Certifying Authority shall conduct a general examination on life saving equipment, radio communication devices and navigation systems. Review records and reports conducted by others.

### **3. CERTIFICATES ISSUED AT END OF SATISFACTORY SURVEY**

The Certifying Authority at completion of the survey and at the satisfactory of the Certifying Authority, shall issue to PetroSA

- a) Certificate of Fitness
- b) Detailed report of findings and recommendations

### **4. CHANGES TO THE SCOPE OF SERVICES**

The scope of the Services shall be subject to changes by additions, deletions or revisions thereto by PetroSA. The Supplier shall be advised of any such changes by written notification from PetroSA describing the change. The Supplier shall promptly perform and strictly comply with each such change when so instructed by PetroSA. Any extra services resulting from such changes will be charged at the Supplier's normal or agreed rates.

### **5. ENQUIRIES**

Any enquiries regarding this tender should be addressed to **Zonazihle Sityata** in the Tender Office at telephone no. **044 601 2311**, or e-mail address **Zonazihle.sityata@petrosa.co.za**.