

GENERAL SPECIFICATION

TELECOMMUNICATIONS

GS EP TEL 182

POB, E-Mustering and E-Tracking

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General Specification		GS EP TEL 182
POB, E-Mustering and E-Tracking		
Rev.: 00	Effective date: 12/2019	Page: 2 of 16

Contents

1. Scope	3
2. Reference documents	3
3. Terminology and Definitions	4
3.1 Definitions	4
3.2 Abbreviations	5
4. System Functional Descriptionnoreply@total.com	6
4.1 POB, E-Mustering & E-Tracking System Principles	6
4.2 System Functions	6
4.3 E-Mustering and E-Tracking	7
4.4 Integration with Access Control System	8
4.5 Performance Requirements	9
5. Technical Requirement	9
5.1 General Requirement	9
5.2 System Design Diversity	10
5.3 Interfaces	11
5.4 RFID Tags	12
5.5 Readers	13
5.6 POB-M / POB-T Main Equipment Cabinet	13
5.7 POB-M/T Central System	14
5.8 Muster Points / Crisis Room /Control Room Equipment	14
5.9 Network Equipment	14
5.10 Cables and Junction Boxes	14
5.11 Cybersecurity	15
6. Engineering, Scope of Supply and Test	15
6.1 Engineering Documents	15
6.2 Scope of Supply	15
6.3 Spare Parts, Life Cycle and Obsolescence Management	15
6.4 Tests	16

General Specification		GS EP TEL 182
POB, E-Mustering and E-Tracking		
Rev.: 00	Effective date: 12/2019	Page: 3 of 16

1. Scope

This document defines the minimum requirements for Electronic POB System for onshore or offshore oil & gas installations.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published at the effective date of this document.

Reference	Title
Directive 2014/34/EU	Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres
IEC 60331	Tests for electric cables under fire conditions - Circuit integrity
IEEE 802.11	IEEE Standard for Information technology - Telecommunications and information exchange between systems Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
ISO/IEC 14443 (All parts)	Identification cards - Contactless integrated circuit cards - All parts

General Specification		GS EP TEL 182
POB, E-Mustering and E-Tracking		
Rev.: 00	Effective date: 12/2019	Page: 4 of 16

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and addendums, is the latest revision published.

Reference	Title
GS EP INS 102	Instrumentation Identification
GS EP INS 106	Instrument Installation
GS EP INS 109	Instrument Cabinets
GS EP INS 110	Instrumentation for package units
GS EP INS 115	Instrument Earthing
GS EP INS 116	Instrument Cables
GS EP INS 135	Cybersecurity Requirements for Industrial Information Systems (SII)
GS EP TEL 181	Access Control System
GS EP SAF 371	Emergency control facilities
GS EP TEC 007	Obsolescence and Lifetime Cycle Management
GS EP TEL 170	Communications Network

3. Terminology and Definitions

3.1 Definitions

There are five types of statements in this specification, the “shall”, “should”, “may”, “can” and “must” statements. They are to be understood as follows:

Shall	Is to be understood as mandatory. Deviating from “shall” statement requires derogation approved by Company.
Should	Is to be understood as strongly recommended to comply with the requirements of the specification. Alternatives shall provide a similar level of protection and this shall be documented.
May	Is to be understood as permission.
Can	Is to be understood as a physical possibility.
Must	Expresses a regulatory obligation.
Company	TOTAL E&P or any TOTAL E&P subsidiary.
Contractor	Any Company TOTAL E&P has signed a Contract with for the Engineering, Procurement, Construction, and Installation of a part of a project.
Site(s)	The functional zones comprising the facilities to be developed as part of the Project onshore or offshore.

General Specification		GS EP TEL 182
POB, E-Mustering and E-Tracking		
Rev.: 00	Effective date: 12/2019	Page: 5 of 16

Location(s) The functional areas or rooms within Site(s) that need to be defined as part of the POB-M/T operational requirement e.g. Satellite platform, camp, or technical rooms (Telecom room, radio room).

Radio-Frequency Identification (RFID): Is an automatic identification method, relying on storing and remotely retrieving data using devices called RFID tags.

RFID TAG Electronic device using RFID technology. This tag stores data descriptors. It can be installed in a smart card, chip card, proximity card (generic name for contactless integrated circuit devices), or specific components on a watch strap for example.

Readers Electronic component device that reads RFID TAG.

POB System located on site in order to manage personnel on board. Refers to all persons those present at a given time on a site.

POB-M System located on site in order to manage efficient mustering process.

POB-T System located on site in order to manage personnel position tracking.

POB-M/T Full System: POB, E-mustering and E-Tracking.

3.2 Abbreviations

ACS	Access Control System
CPU	Central Process Unit
ICSS	Integrated Control and Safety Systems
IP	Internet protocol
LED	Light-emitting diode
MDF	Main Distribution Frame
MTBF	Mean Time Between Failure
PAGA	Public Address and General Alarm
PC	Personal Computer
POB	Persons On Board
POB-M	Persons On Board - Mustering
POB-T	Persons On Board - Tracking
RAID 5	Redundant Arrays of Independent Disks
SIE	Enterprise Information System
SII	Industrial Information System
WPA 2	Wi-Fi Protected Access is a class of systems to secure wireless networks