



Exploration & Production

GENERAL SPECIFICATION

Telecommunications

GS EP TEL 411

Access Control Systems

00	01/2011	First issue
Rev.	Date	Notes

Owner: EP/FEI/SI

Managing entity: EP/FEI/SI



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1. Scope

This document defines the requirements for the Access Control Systems on onshore or offshore COMPANY SITES.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
ISO/IEC 14443	Identification cards. ISO standards for identification cards

Professional Documents

Reference	Title
Not applicable	

Regulations

Reference	Title
ATEX directive 94/9/CE	Equipment and protective systems intended for use in potentially explosive atmospheres

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	



Total General Specifications

Reference	Title
GS EP TEL 002	Telecom Shutdown Philosophy
GS EP TEL 183	Design and installation of POB, E-mustering and E-tracking
GS EP TEL 410	Installation rules
GS EP TEL 700	Telecommunications Engineering services
GS EP TEL 710	Telecom equipment numbering
GS EP ELE 151	DC uninterruptible power systems (UPS)

3. Definitions

The terms used in this document are as listed below. Abbreviations are included Section 4.

COMPANY: TOTAL

SITE(S): The functional zones comprising the facilities to be developed as part of the Project onshore or offshore

LOCATION(S): The functional areas or rooms within SITE(S) e.g. Telecommunication Equipment Room, Radio Room

Throughout this specification, the words "will", "may", "should", "shall" when used have meaning as follows:

- "Will" is used normally in conjunction with an action by COMPANY;
- "May" indicates an acceptable course of action;
- "Should" indicates a preferred course of action;
- "Shall" indicates a mandatory requirement.

4. Glossary

ACS	Access Control System
CPU	Central Process Unit
FAT	Factory Acceptance Test
HITAG:	The Hitag protocols are standards developed by Philips Semiconductor
HSE	Health, Safety & Environment
ICSS	Integrated Control and Safety Systems
IDS	Intrusion Detection System
LED	Light-emitting diode.
MDF	Main Distribution Frame

MIFARE	Mifare is a proven, reliable and robust technology for contactless smart cards. Mifare complies with ISO14443 A.
MPOBS	Main Personnel on Board System
PAGA	Public Address and General Alarm
PC	Personal Computer
POB	Personnel On Board. Refers to all persons those present at a given time on a site, or by extension on a subsidiary.
RAID 5	Redundant Array of Independent Disks
RFID	Radio Frequency Identity.
RSES	Responsible of Safety and Environment on Site
SIE	French acronym, means General office enterprise data network.
TAG	Badge
UHF	Ultra High Frequency
UPS	Uninterrupted Power Supply

5. System Description

5.1 General

An Access Control System shall be provided for access control within SITES and LOCATIONS of the COMPANY's onshore and offshore assets. It shall comply with [ATEX directive 94/9/CE](#) when relevant.

The access control system will monitor and control the movement of personnel entering SITES and LOCATIONS and personnel and vehicles entering or leaving the SITES.

Access control systems must include active features to identify the number of employees present.

The access control system comprises 5 elements:

- The Group branded Multipass Badge. This badge is equipped with a 1k MIFARE contactless chip that conforms to [ISO 14443](#) standards for physical access rights and a contact smart chip for the management of logistical services.
- The Global Group Identity Number (IGG) – a unique number issued to each member of Group or on-site supplier staff. All other workers or people present at the site are considered to be Visitors.
- Entry/exit controls to compile reports on those actually present – mandatory at industrial sites.
- The definition of access drives & areas
- Specific management of visitors and vehicles entering the site.