



# Engineering Standard

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SAES-O-206

10 March 2012

Security Devices

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Document Responsibility: Safety and Security Standards Committee

## Saudi Aramco DeskTop Standards

### Table of Contents

1	Introduction.....	<a href="#">2</a>
2	Conflicts and Deviations.....	<a href="#">2</a>
3	References.....	<a href="#">2</a>
4	General Requirements.....	<a href="#">3</a>

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Previous Issue: [New](#) Next Planned Update: 10 March 2017

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Page 1 of 5

## 1 Introduction

- 1.1 This Standard covers mandatory requirements governing the design, installation and usage of security devices for Saudi Aramco industrial facilities classified under [SAES-O-201](#), Section 4.2.
- 1.2 This Standard shall be used in conjunction with Security Directive SEC-06 issued by the High Commission for Industrial Security (HCIS), Ministry of Interior, Government of Saudi Arabia.

## 2 Conflicts and Deviations

- 2.1 All conflicts between Standards, Requisitions for Material, related Specifications, Codes, Forms, Drawings and other documents shall be resolved as per [SAES-O-201](#), Section 2.
- 2.2 Any deviations from the provisions of this Standard shall be resolved as per [SAES-O-201](#), Section 2.

## 3 References

All referenced Specifications, Standards, Codes, Forms, Drawings and similar material shall be of the latest issue (including all revisions, addenda and supplements) unless stated otherwise.

### 3.1 Saudi Aramco References

Saudi Aramco Engineering Standard

[SAES-O-201](#)                      *Application of Security Directives*

### 3.2 Other References

Security Directives

*SEC-06*                              *Security Devices*

### 3.3 ISO Product Constraints & Standard Designs

Please see [SAES-O-201](#), Sections 4.11 and 4.12 for product constraints and standard ISO designs. The security devices listed in this standard shall be deployed at facilities as specified in ISO standard designs referenced in [SAES-O-201](#), Section 4.12.

## 4 General Requirements

- 4.1 Facilities shall use the security devices specified below as required by the classification of the facility. All security devices shall comply with the requirements of this standard.

SYSTEM	APPLICATION			
	Class 1	Class 2	Class 3	Class 4
X-Ray Systems	✓	✓	✓	
Explosive Trace Detector	✓	✓	✓	
Metal Detection Archway	✓	✓	✓	
Ballistic Protective Glass	✓	✓	✓	✓*
Drop gates	✓	✓	✓	✓
Turnstiles	✓	✓	✓	
Crash Barriers	✓	✓	✓	✓

\* Outer gate only

### 4.2 Inspection Devices

Inspection devices shall be installed to detect any attempt to bring contraband into a protected facility through the gates and other entry points. These devices consist of, but are not limited to, X-ray systems, Explosive Trace Detectors and Metal Detection Archways.

#### 4.2.1 X-Ray Systems

Class 1, 2 & 3 facilities shall deploy X-ray units compliant with Section 4.1.1. of SEC-06, when required by Industrial Security Operations (ISO).

Please see [SAES-O-201](#), Section 4.11 for product selection constraints.

#### 4.2.2 Explosive Trace Detectors

Class 1, 2 & 3 facilities shall deploy Explosive Trace Detectors compliant with Section 4.1.2. of SEC-06, when required by Industrial Security Operations (ISO).

Please see [SAES-O-201](#), Section 4.11 for product selection constraints.

K-9 services can be utilized as an acceptable alternative as long as K-9 is available in close proximity to the facility and has an adequate number of dogs to ensure coverage when needed.

#### 4.2.3 Metal Detection Archways

Class 1, 2 & 3 facilities shall deploy Metal Detection Archways compliant with Section 4.1.2. of SEC-06, when required by Industrial Security Operations (ISO).

#### 4.3 Ballistic Protective Glass

All outer gatehouses and all industrial facility gatehouses for Class 1, 2, 3 & 4 facilities shall use ballistic protective glass in the gatehouse in compliance with Section 4.2.3. of SEC-06. Where specified by Industrial Security Operations (ISO), inner gates shall also use ballistic protective glass in the gatehouse.

#### 4.4 Barrier Deterrence

Operator shall deploy drop gates and turnstiles at gates to manage vehicular and pedestrian traffic and provide certified crash rated barriers at main gates and entrances to critical facilities.

##### 4.4.1 Drop gates

All security gates shall use drop gates, compliant with Section 4.3.1. of SEC-06, to manage vehicular traffic at industrial facility gates.

Please see [SAES-O-201](#), Section 4.11 for product selection constraints.

##### 4.4.2 Turnstiles

All Class 1, 2 & 3 facility security gates shall use turnstiles, compliant with Section 4.3.2. of SEC-06, to manage pedestrian traffic at industrial facility gates.

Please see [SAES-O-201](#), Section 4.11 for product selection constraints.

##### 4.4.3 Crash Barriers

All security gatehouses at Class 1, 2, 3 & 4 facilities shall use certified crash barriers, compliant with Section 4.3.3. of SEC-06, to provide vehicular ingress protection at all industrial gates and selected non-industrial gates.

Industrial Security Operations (ISO) shall determine crash barrier deployment at non-industrial gates.

Please see [SAES-O-201](#), Section 4.11 for product selection constraints.

10 March 2012      **Revision Summary**  
New Saudi Aramco Engineering Standard.