

Engineering Standard

SAES-O-107

12 October, 2005

Security and Emergency Exit Doors

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Saudi Aramco DeskTop Standards

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1 Scope

This standard refers to Security and Emergency Exit Doors required for buildings housing vital equipment per [SAES-O-100](#), paragraph 1.3. This Standard shall be used in conjunction with Safety and Security Directive No. 7 (SSD/7) of the Saudi Arabian Government Supreme Commission for Industrial Security.

2 Conflicts and Deviations

Refer to Section 2 of [SAES-O-100](#).

3 References

The selection of material and equipment, and the design, construction, maintenance, and repair of equipment and facilities covered by this standard shall comply with the latest edition of the references listed below, unless otherwise noted.

3.1 Saudi Aramco References

Saudi Aramco Engineering Procedure

SAEP-302	<i>Instructions for Obtaining a Waiver of a Mandatory Saudi Aramco Engineering Requirement</i>
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Saudi Aramco Engineering Standards

SAES-M-100	<i>Saudi Aramco Building Code</i>
SAES-O-100	<i>Safety and Security, General Requirements</i>
SAES-O-108	<i>Locks used on Security Doors, Perimeter Fences and Emergency Exits</i>
SAES-O-109	<i>Buildings Housing Sensitive or Vital Equipment</i>
SAES-O-115	<i>Intruder Detection System</i>

3.2 Safety and Security Directives

<i>SSD/7</i>	<i>Security and Emergency Exit Doors</i>
<i>SSD/15</i>	<i>Intruder Detection Systems</i>

3.3 Industry Codes and Standards

National Fire Protection Association

<i>NFPA 80</i>	<i>Fire Doors and Windows</i>
<i>NFPA 101</i>	<i>Life Safety Code</i>

4 Amendments

Safety and Security Directive No. 7 has not been amended by the Supreme Commission for Industrial Security.

5 Commentary

Certain clarifications have resulted from applying SSD/1 to Saudi Aramco projects. The following items reflect a general understanding reached with representatives of the Supreme Commission for Industrial Security and should be verified through liaison by the Proponent with the General Manager of Industrial Security Operations. The GM of ISO will contact the Managers of the Consulting Services Department and/or Loss Prevention Department in case there are conflicts with other company engineering standards and materials specifications, standard drawings or Industry Codes.

- 5.1 It is understood that the requirements of this specification apply to the doors of electrical switchgear buildings, communication buildings, and other buildings housing vital equipment. Vital equipment is defined in [SAES-O-100](#), paragraph 1.1.3.
- 5.2 The REVOBAR type of hasp and staple protects the attaching screws from tampering when the hasp is closed over the staple, however; it is no longer being manufactured and has been replaced by the Hercules Padlock Bar. (Refer to [SAES-O-108](#)).
- 5.3 Security and emergency exit doors, including their hardware and frames, shall be made of steel and fire-rated for the appropriate fire-separation rating of the fire wall they penetrate as specified in [SAES-M-100](#) and NFPA 80.
- 5.4 Doors and/or associated hardware of this specification shall have the capability of being tied into the monitoring sensors of an intruder detection system (SSD/15), if required.

Revision Summary

12 October, 2005

Revised the "Next Planned Update". Reaffirmed the contents of the document, and reissued with no other changes.