

# Engineering Standard

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SAES-O-110

26 October 2005

## Protection of Vital Equipment

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## Saudi Aramco DeskTop Standards

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## 1 General

This standard refers to the Protection of Vital Equipment per [SAES-O-100](#), paragraph 1.3. This Standard shall be used in conjunction with Safety and Security Directive No. 10 (SSD/10) of the Saudi Arabian Government Supreme Commission for Industrial Security.

## 2 Amendments

Safety and Security Directive No. 10 has not been amended by the Supreme Commission for Industrial Security.

## 3 Commentary

Certain clarifications have resulted from applying this standard 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 Saudi Aramco Industrial Security Operations and the Manager of the Consulting Services Department in case there are conflicts with other company engineering standards and materials specifications, standard drawings or Industry Codes.

- 3.1 It is understood that the requirements of this specification apply to vital equipment situated within and outside the plant security perimeter fence (SSD/1 or SSD/2). Vital equipment is defined in [SAES-O-100](#) paragraph 1.1.3.
- 3.2 Windows, air ducts, etc., must be protected with expanded steel mesh (attached on the inside of the building).
- 3.3 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screws from tampering when the hasp is closed over the staple, however; it is no longer being manufactured and has been replaced by the Hercules Padlock Bar, refer to [SAES-O-108](#).
- 3.4 Hydrocarbon pipeline/flowline valves classified as vital per [SAES-O-100](#) paragraph 1.1.3 by the responsible operating department shall be caged per SSD/10.
- 3.5 Reference Standards

Saudi Aramco Engineering Standards

[SAES-O-100](#)

*Safety and Security, General Requirements*

[SAES-O-108](#)

*Locks used on Security Doors, Perimeter Fences  
and Emergency Exits*

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[SAES-O-120](#)

*Expanded Metal Mesh*

Safety and Security Directives

*SSD/1*

*Standard Security Fence*

*SSD/2*

*Category II Fencing*

*SSD/10*

*Protection of Vital Equipment*

**Revision Summary**

26 October, 2005

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