

Engineering Standard

SAES-G-101

30 April 2005

Regulated Vendors List for Rotating Equipment

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Saudi Aramco DeskTop Standards

Table of Contents

1	Scope.....	2
2	Conflicts and Deviations.....	2
3	References.....	2
4	Definitions.....	2
5	General.....	3
6	Acceptable Manufacturers Listing.....	4

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Revised paragraphs are indicated in the right margin

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Page 1 of 7

1 Scope

This standard identifies acceptable manufacturers for Pumps, Pump Seals, Compressors, and Gas and Steam Turbines (SAMS Classes 31 & 32).

2 Conflicts and Deviations

- 2.1 Any conflicts between this standard and other applicable Saudi Aramco Engineering Standards (SAESs), Materials System Specifications (SAMSSs), Standard Drawings (SASDs), or industry standards, codes, and forms shall be resolved in writing by the company or buyer representative through the Manager, Consulting Services Department of Saudi Aramco, Dhahran.
- 2.2 Direct all requests to deviate from this standard in writing to the Company or Buyer representative, who shall forward such requests to the Manager, Consulting Services Department of Saudi Aramco, Dhahran. The CSD Manager shall follow internal Company procedure SAEP-133 to process the request.

3 References

The following is a summary of the Saudi Aramco documents that have been mentioned within this standard:

Saudi Aramco Engineering Procedure

SAEP-133

Instructions for the Development of a "Regulated Vendors List" Engineering Standard

4 Definitions

Terms shown in **bold** font within this document are defined below:

Approval: Written authorization by the Manager, Consulting Services Department, Saudi Aramco, Dhahran.

Acceptable: **Approval** is not required to place a purchase order for the product. After the order has been placed, the **supplier** of this product must ensure that he complies with all aspects of the purchasing contract (e.g., must meet the Saudi Aramco Materials System Specification).

9COM Material #: Commodity material number.

License Agreement: A contract between a **supplier** and an owner of rights to an equipment design, allowing a **supplier** to either (1) assemble the equipment using all the pieces provided by the design owner or (2) assemble the equipment using a combination of pieces provided by the design owner and pieces manufactured by the

licensee to the design owner's detailed drawings/specifications. The contract between the licensor and licensee would (1) require the licensee to follow the licensor manufacturing procedures and be routinely audited by the licensor for compliance and (2) require the equipment to be marketed and labeled using the licensor's brand name.

Made: Created from raw materials and/or assembled by the manufacturer.

Manufacturer: Can be either (1) the owner of the brand name of the equipment or (2) a licensee that has a **license agreement**.

SAMSS: "Saudi Aramco Material System Specification".

SAP: Saudi Aramco corporate computer system that includes the approved manufacturers.

Supplier: The person/company, etc., who is responsible to provide the equipment to Saudi Aramco.

5 General

5.1 Procurement of a product **made** by a **manufacturer** not listed as an approved manufacturer in Saudi Aramco **SAP** system is not allowed without **approval**. Requests for **approval** of an alternate **manufacturer** must be supported by documentation identifying how the alternate **manufacturer** would better serve Saudi Aramco over the approved **manufacturers**.

Commentary Note:

*If the request to procure from an alternate **manufacturer** is not approved, the **approval** authority is under no obligation to present the reasons for the refusal.*

5.2 The **manufacturer** listings within Saudi Aramco **SAP** system should be interpreted in the following manner:

5.2.1 **Manufacturer listed without limitation:** All products from the manufacturer in the given category (**9COM material** and, if applicable, **SAMSS**) are **acceptable**.

5.2.2 **Manufacturer listed with a limitation:** Only the product that meets the limitation is **acceptable**. If noted as being manufactured "Under License", only products **made** under the terms of the **license agreement** are **acceptable**.

5.2.3 **Manufacturer listed with a specific location:** Only products **made** in the specific location(s) or area(s) are **acceptable**.

6 Acceptable Manufacturers Listing

Refer to Saudi Aramco **SAP** system for the approved manufacturers for the following **9COMs**:

Equipment Description: Chemical Injection Unit: Including Pump, Driver & Skid

9COM MATERIAL #: 6000002309

Specification: 31-SAMSS-009

Equipment Description: Pump: Single Stage; Horizontal

9COM Material #: 6000002350

Specification: ASME B73.1M

Equipment Description: Pump: Vertical Inline

9COM Material #: 6000002351

Specification: ASME B73.2M

Equipment Description: Pump: Multistage; Axial Split

9COM MATERIAL #: 6000002359

Specification: 31-SAMSS-004

Equipment Description: Pump: Canned Motor

9COM MATERIAL #: 6000002367

Specification:

Equipment Description: Pump: Single Stage; Horizontal; Double Suction; Radial Split

9COM MATERIAL #: 6000002286

Specification: 31-SAMSS-004

Equipment Description: Pump: Vertical Inline

9COM MATERIAL #: 6000002292

Specification: 31-SAMSS-004

Equipment Description: Pump: Horizontal; Firewater

9COM MATERIAL #: 6000002355

Specification: NFPA 20

Equipment Description: Pump: Horizontal; Magnetic Drive

9COM MATERIAL #: 6000002366

Specification: ASME B73.1

Equipment Description: Pump: Horizontal; Single Stage; Axial Split; Double Suction

9COM MATERIAL #: 6000002357

Specification: 31-SAMSS-004

Equipment Description: Pump: Horizontal; Single Stage; End Suction

9COM MATERIAL #: 6000002356

Specification: 31-SAMSS-004

Equipment Description: Pump: Vertically Suspended; Firewater

9COM MATERIAL #: 6000002344

Specification: NFPA 20

Equipment Description: Pump: Packaged & Integrally Geared

9COM MATERIAL #: 6000002352

Specification: 31-SAMSS-004

Equipment Description: Pump: Controlled Volume

9COM MATERIAL #: 6000002361

Specification: 31-SAMSS-009

Equipment Description: Pump: Positive Displacement; Reciprocating

9COM MATERIAL #: 6000002368

Specification: API STD 674

Equipment Description: Pump: Positive Displacement; Rotary; Screw Type

9COM MATERIAL #: 6000002303

Specification: API STD 676

Equipment Description: Pump: Positive Displacement; Rotary; Gear Type

9COM MATERIAL #: 6000002300

Specification: API STD 676

Equipment Description: Pump: Positive Displacement; Rotary; Vane Type

9COM MATERIAL #: 6000002304

Specification: API STD 676

Equipment Description: Pump: Progressive Cavity

9COM MATERIAL #: 6000002363

Specification:

Equipment Description: Pump: Horizontal; Multistage; Radially split; Double Case

9COM MATERIAL #: 6000002360

Specification: 31-SAMSS-004

Equipment Description: Pump: Horizontal; Two Stage; Radial Split

9COM MATERIAL #: 6000002358

Specification: 31-SAMSS-004

Equipment Description: Pump: Submersible; and Related Accessories

9COM MATERIAL #: 6000002370

Specification: 31-SAMSS-010

Equipment Description: Pump: Sump; Vertical; Molten Sulfur

9COM MATERIAL #: 6000002371

Specification:

Equipment Description: Pump: Vertically Suspended

9COM MATERIAL #: 6000002288

Specification: 31-SAMSS-004

Equipment Description: Seal: Mechanical

9COM MATERIAL #: 6000002315

Specification:

Equipment Description: Centrifugal Compressors

9COM MATERIAL #: 6000002245

Specification: 31-SAMSS-001

Equipment Description: Reciprocating Compressors for Plant & Instrument Air

9COM MATERIAL #: 6000002246

Specification: 31-SAMMS-002

Equipment Description: Reciprocating Compressors for Process Air or Gas Service

9COM MATERIAL #: 6000002247

Specification: 31-SAMSS-003

Equipment Description: Compressors, Positive Displacement, Rotary, General Refinery Service, Plant Air

9COM MATERIAL #: 6000002338

Specification: API STD 619

Equipment Description: Integrally Geared Centrifugal Air Compressors

9COM MATERIAL #: 6000002244

Specification: 31-SAMSS-006

Equipment Description: Turbine, Combustion Gas; Aero-Derivative; 5000 HP (3730 kW) up to 30,000 HP (22380 kW)

9COM MATERIAL #: 6000002490

Specification: SAES-K-502

Equipment Description: Turbine, Combustion Gas; Aero-Derivative; 30,000 HP (22380 kW) and Above

9COM MATERIAL #: 6000002491

Specification: SAES-K-502

Equipment Description: Turbine, Combustion Gas; Industrial;
Up to 5000 HP (3730 kW)

9COM MATERIAL #: 6000002492

Specification: SAES-K-502

Equipment Description: Turbine, Combustion Gas; Industrial;
5000 HP (3730 kW) Up to 30,000 HP (22380 kW)

9COM MATERIAL #: 6000002493

Specification: SAES-K-502

Equipment Description: Turbine, Combustion Gas; Industrial;
30,000 HP (22380 kW) and Above

9COM MATERIAL #: 6000002494

Specification: SAES-K-502

Equipment Description: Turbine, Steam; General Purpose

9COM MATERIAL #: 6000002496

Specification: SAMSS: 32-SAMSS-009

Equipment Description: Turbine; Steam; Special Purpose

9COM MATERIAL #: 6000002497

Specification: 32-SAMSS-010

Equipment Description: Turbine, Gas Expansion;
for Driving Gas Compressor or Generator

9COM MATERIAL #: 6000002498

Specification:

Revision Summary

- | | |
|------------------|--|
| 31 December 2003 | The revision includes manufacturer changes, editorial revisions to update manufacturers information, and changes from CCC material numbers to new SAP 9COM material numbers.
Revised the "Next Planned Update." |
| 30 April 2005 | Minor revision to removed the listing of the manufacturers to ensure there are no conflicts in the approved manufacturers between the RVL standard and the SAP RVL listing. |