API 20 Series Supply Chain Management Standards

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Overview of API 20 Series – Supply Chain Management
Overview of API 20 Series – Supply Chain

• API formed in 1919 as a national trade association

• New organization focuses on three priority issues – industry taxation, statistics, and standards

• Standards Program organized in 1923, first standard published in 1924 on drilling threads

• API now publishes 500 standards covering all industry segments

• API Standards are:
  • Core of Institute’s technical authority
  • Represent industry’s best practices and are used in worldwide operations
  • Facilitate reasonable regulations

• API is accredited by the American National Standards Institute
API Standards Organization

CSOEM
Committee on Standardization Of Oilfield Equipment and Materials

Offshore Structures (SC2)

Tubular Goods (SC5)

Valves & Wellhead (SC6)

Drilling Structures (SC8)

Well Cements (SC10)

Field Operating Eqpt. (SC11)

Completion & Frac Fluids (SC13)

Fiberglass & Plastic Tubulars (SC15)

Drilling Well Control Eqpt. (SC16)

Subsea Production Eqpt. (SC17)

Quality (SC18)

Completion Eqpt. (SC19)

Supply Chain Mgmt. (SC20)
Drivers for Oil & Gas Industry Supply Chain Standards

• Ongoing industry issues with materials and processes deemed critical to the safety and reliability of products used in the Oil and Gas industry.

• Increasingly global supply chain with limited history with oil and gas standards and best practices.

• Increasing requirements for local content and sustainable development initiatives including regulatory compliance.
Goals of Supply Chain Standards

• Institutionalize best practices for supplier review and qualification.

• Harmonize component and process qualification requirements.

• Establish scalable requirements to address various levels of criticality and risk.

• Allow suppliers, product manufacturers and end users access to the industry’s licensing and accreditation program – the API Monogram Program.
Using API Supply Chain Standards

- **Voluntary licensing and use by the supplier.** Example: Casting, Forging and bolting supplier applies to API for a license for Specification API 20A, or 20B or 20C or 20E can be approved following audits of their quality management system API Q1 and of their facility’s compliance with the 20A or 20B or 20C or 20E requirements.

- **Use by the purchaser:** Manufactures **may require** licensing and/or just compliance with API Specification 20A, 20B, 20C, 20E, etc as a contractual requirement on material supplied.

- **Use by the end-user:** **May require** that manufactures equipment be produced from API Specification 20A, 20B, 20C, 20E, etc compliant components.
API 20: Supply Chain Standards issued - status


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Currently there are several Licensee’s and application

<table>
<thead>
<tr>
<th>Spec No.</th>
<th>Active License</th>
<th>Application for License</th>
<th>Country’s</th>
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<tbody>
<tr>
<td>20A-Castings</td>
<td>1</td>
<td>0</td>
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<tr>
<td>20B-Open Die Forgings</td>
<td>12</td>
<td>13</td>
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<tr>
<td>20C-Closed Die Forgings</td>
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<tr>
<td>20E-Carbon Steel Fasteners</td>
<td>9</td>
<td>3</td>
<td>USA, China, Singapore, UK, Mexico</td>
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QUESTIONS