

# API Standards for the Oil and Natural Gas Industry

## Pipeline Documents

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# Types of Actions on a Document

1. **New** – Created from results of research and/or draft document under control of a workgroup.  
(Results in a new Document Name, Number and 1st Edition)
2. **Revise** – Changing sections, including adding, updating, deleting or amending sections.  
(Results in a new Revision No. and Date on Issuance)
3. **Reaffirm** – No changes to document other than editorial  
(Results in no new Revision No. or Date, Reaffirmation Date Identified)
4. **Withdraw** – Document is no longer supported by API (committees). Existing quantities may be available for purchase until existing supply is exhausted.

# API Standards Committee Operations

**Governing Committee (OTC) Meets to Review/Approve SRRR, Monitor Work Program and Identify Areas to be Addressed**

- **Subcommittees (Integrity, Cybernetics, Operator Qualification) meet periodically to address topics specific to these areas and have responsibility for oversight of standards.**
- **Subgroups (workgroups, task forces, resource groups) meet as needed to direct and advance the development/revision work, through conference calls, web meetings and/or face-to-face meetings.**
- **Primary voting body to review and adopt standards/recommended practices/publications, etc.**

# Standards Development Process

Developed by consensus (does not mean unanimity)

Standards developed using ANSI approved API Standards Development Procedures (available on-line at [www.api.org](http://www.api.org))

Standards group has oversight for ensuring conformance with the applicable procedures, facilitating meetings, and assisting in resolution of comments/conflicts

# Standards Development Process

## Participation in Standards Development Workgroups:

- Open process
- API corporate membership is not a requirement for participation on API standards development committees
- Seek representation from all interest groups: member companies, other trade organizations, government, manufacturers, consultants, etc.
- Participation is generally not restricted but left up to the chairperson

# Standards Development Process

## Balloting:

- All API balloting is done via the web
- May initially ballot subcommittee for review/comment to report back to work group (non-binding vote)
- Final ballot issued to OTC for review and comment (binding vote)
- Document sent simultaneously to interest groups for **comment only** (These groups do not voting rights)
- All comments resolved by work group (both from voting and interest groups)
- Technical resolutions need to be re-balloted

# Standards Development Process

## Ballot Results:

- Need greater than 50% of eligible voters to respond for valid ballot
- Need greater than 67% of responses to be “affirmative” for ballot to be accepted
- Voting results
  - Affirmative
  - Affirmative with comment (general, technical, editorial)
  - Negative (must have comment)
  - Abstain (does not count in the vote total)
- Technical comment resolutions need to be re-balloted

# Standards Development Process

(Step-by-Step)

1. Committee (with guidance from OTC) identifies need for document revision
2. Committee develops workgroup (volunteers); Chairperson is identified
3. Chairperson completes the Standards Resource and Research Request (SRRR) Form
4. SRRR form circulated to OTC for review/comment
5. First meeting called by chairperson, typically teleconference call only
6. Subsequent meetings/responsibilities identified; API coordinates calls and web-casting

# Standards Development Process

(Step-by-Step)

7. Chairperson/designated scribe updates document as work progresses
8. Final version of document submitted for review/ballot
9. Chairperson, in conjunction with the workgroup, resolves all comments
10. Final version of document (based on comments) submitted to API for publication
11. Publications department issues document for proofing
12. Editorial changes made, document issued

# Standards Development Timeline

- Formation of workgroup and definition of scope
- Submission of SRRR through first teleconference
- Work on document
- Ballot (6 weeks)
- Comment Resolution from Ballot
- Publications – typesetting and initial proof
- Corrections to final issuance

Total (15 weeks [for revisions] to ?)

Start Process Over Again in **5** Years



# Pipeline Standards – Status Open

Standard	Ed.	Status
API RP 1168 Control Center Management	0	Task force established to develop - New Document
API RP 1167 Alarm Management	0	Task force established to develop - New Document
RP 1111 - Design, Construction, Operation, and Maintenance of Offshore Hydrocarbon Pipelines & Risers	3	Task force established to review/update document
RP 2200 - Repairing Crude Oil, Liquefied Petroleum Gas and Product Pipelines	3	Task force established to review/update document
Pub 1161 - Guidance Document for the Qualification of Liquid Pipeline Personnel ( <i>Next Ballot to make RP</i> )	1	OTC approved to reaffirm and revise, OQC workgroup revising document. 1st Draft for OQC review and vote by Aug 07
API 1160 - Managing System Integrity for Hazardous Liquid Pipelines	1	Document under review for potential revision
<b>RP 1117 - Movement of In-Service Pipelines</b>	<b>2</b>	<b>Under Ballot Currently</b>
RP 1109 - Marking Liquid Petroleum Pipeline Facilities	3	Task force established to review/update document
API 1164 - SCADA Security	1	Task force established to review/update document
RP 1162 - Public Awareness Programs for Pipeline Operators	1	Task force established to review/update document

# Pipeline Standards – Status Closed

Standard	Ed
API 1163 - ILI Systems Qualifications	1
RP 1133 - Guidelines for Onshore Hydrocarbon Pipelines Affecting High Consequence Floodplains	1
RP 1166 - Excavation Monitoring	1
API 1104 - Welding of Pipelines and Related Facilities	20
RP 1165 - Pipeline SCADA Displays	1
RP 1110 - Pressure Testing of Steel Pipelines for the Transportation of Gas, PC, Hazardous Liquids, HVL or CO2	5
RP 1114 - Recommended Practice for the Design of Solution-mined Underground Storage Facilities	1
RP 1115 - Recommended Practice on the Operation of Solution-mined Underground Storage Facilities	1
RP 1113 – Developing a Pipeline Supervisory Control Center	1
RP 1130 – Computational Pipeline Monitoring for Liquids Pipelines	1
RP 1102 – Steel Pipelines Crossing Railroads and Highways	7

## Other API Pipeline Documents

### ISO/TC67/SC2 Pipeline Transportation Systems – Documents Developed by ISO WGs and Adopted Back by API

- API Spec 5L Line Pipe, 44<sup>th</sup> Edition (ISO 3183:2007) – *Upstream Subcommittee 5*
- API Spec 6D, Pipeline Valves, 23<sup>rd</sup> Edition (ISO 14313:2007) – *Upstream Subcommittee 6*
- API Spec 6DSS Subsea Pipeline Valve, 1<sup>st</sup> Edition (ISO 14723:2001) – *Upstream Subcommittee 6*

### API – AGA Joint Committee on Pipeline Welding

- API 1104 Welding of Pipelines and Related Facilities

## Other API Pipeline Documents (Upstream Subcommittee 5)

- **RP 5L1 – Railroad Transportation of Line Pipe, 6<sup>th</sup> Ed (2002)**
- **RP 5L2 – Internal Coating of Line Pipe for Non-corrosive Gas Transmission Service, 4<sup>th</sup> Ed (Reaffirmed 2007)**
- **RP 5L3 – Conducting Drop-weight Teat Tests on Line Pipe, 3<sup>rd</sup> Ed (Reaffirmed 2003)**
- **RP 5L7 – Unprimed Internal Fusion Bonded Epoxy Coating of Line Pipe, 2<sup>nd</sup> Ed (Reaffirmed 2004)**
- **RP 5L8 – Field Inspection of New Line Pipe, 2<sup>nd</sup> Ed (Reaffirmed 2003)**
- **RP 5L9 – Recommended Practice for External Fusion Bonded Epoxy Coating of Line Pipe, 1<sup>st</sup> Ed (Reaffirmed 2004)**
- **Spec 5LC – Specification for CRA Line Pipe, 3<sup>rd</sup> Ed (Reaffirmed 2006)**
- **Spec 5LCP – Specification for Coiled Line Pipe, 2<sup>nd</sup> Ed (2006)**
- **Spec 5LD – Specification for CRA Clad or Lined Steel Pipe, 2<sup>nd</sup> Ed (1998)**
- **RP LW – Transportation of Line Pipe on Barges and Marine Vessels, 2<sup>nd</sup> Ed (2003)**

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## Pipeline Documents

### Thank You

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