

REFINING STANDARDS

REFINERY OPERATIONS



Equipment

- **Pressure Relief Systems**
- **Piping & Valves**
- **Electrical**
- **Mechanical**
- **Heat Transfer**
- **Instruments & Controls**

Inspection & Mechanical Integrity

API 510, Pressure Vessel Inspection Code: In-Service Inspection, Rating, Repair, and Alteration, API 570, Piping Inspection Code: In-Service Inspection, Rating, Repair, and Alteration of Piping Systems, RP 571, Damage Mechanisms Affecting Fixed Equipment in the Refining Industry, RP 577, Welding Processes, Inspection, and Metallurgy, RP 576, Inspection of Pressure-Relieving Devices API 579-1, Fitness-For-Service, RP 580, Risk-Based Inspection, RP 581, Risk-Based Inspection Technology, Std 610, Centrifugal Pumps for Petroleum Std 653, Tank Inspection, Repair, Alteration, and Reconstruction RP 582, Welding Guidelines for the Chemical, Oil, and Gas Industries, RP 941, Steels for Hydrogen Service at Elevated Temperatures and Pressures in Petroleum Refineries and Petrochemical Plants, RP 945, Avoiding Environmental Cracking in Amine Units

Storage Tanks

Std 620, Design and Construction of Large, Welded, Low- Pressure Storage Tanks, Std 650, Welded Tanks for Oil Storage, Std 2015, Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks

Process Safety

RP 752, Management of Hazards Associated with Location of Process Plant Permanent Buildings, RP 753, Management of Hazards Associated with Location of Process Plant Portable Buildings, RP 754, Process Safety, Performance Indicators for the Refining and Petrochemical Industries, RP 755, Fatigue Risk Management Systems for Personnel in the Refining and Petrochemical Industries



RP 751, Safe Operation of Hydrofluoric Acid Alkylation Units

Safety & Fire Protection

RP 2001, Fire Protection in Refineries, RP 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents, RP 2027, Ignition Hazards Involved in Abrasive Blasting of Atmospheric Storage Tanks in Hydrocarbon Service, RP 2028, Flame Arresters in Piping Systems, RP 2030, Application of Fixed Water Spray Systems for Fire Protection in the Petroleum and Petrochemical Industries, RP 2210, Flame Arresters for Vents of Tanks Storing Petroleum Products, RP 2216, Ignition Risk of Hydrocarbon Vapors by Hot Surfaces in the Open Air, RP 2218, Fireproofing Practices in Petroleum and Petrochemical Processing Plants