

# AFPM & API ADVANCING PROCESS SAFETY



**AFPM**  
American  
Fuel & Petrochemical  
Manufacturers



**The refining and petrochemical manufacturing industries are committed to protecting the health and safety of our workers, our contractors and our neighbors as well as the environment in which we operate. Our members continuously look for opportunities to enhance safety and recognize that an effective means to improve process safety performance throughout the industry is to learn from each other. AFPM and API's new programs further advance process safety improvements by providing industry with more opportunities to communicate and share experiences and knowledge – vital components of our collective goal to improve process safety performance.**



**AFPM**

American  
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The new NPRA.



**American Fuel & Petrochemical Manufacturers**

AFPM, the American Fuel & Petrochemical Manufacturers (formerly known as NPRA, the National Petrochemical & Refiners Association) is a trade association representing high-tech American manufacturers of virtually the entire U.S. supply of gasoline, diesel, jet fuel, other fuels and home heating oil, as well as the petrochemicals used as building blocks for thousands of vital products in daily life. AFPM members make modern life possible and keep America moving and growing as they meet the needs of our nation and local communities, strengthen economic and national security, and support 2 million American jobs.

**American Petroleum Institute**

The American Petroleum Institute (API) is the only national trade association that represents all aspects of America's oil and natural gas industry. Our more than 400 corporate members, from the largest major oil company to the smallest of independents, come from all segments of the industry. They are producers, refiners, suppliers, pipeline operators and marine transporters, as well as service and supply companies that support all segments of the industry.

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### **AFPM / API Process Safety Performance Metrics**

AFPM and API modified the annual safety data reporting programs to align with the new ANSI/API Standard – RP 754 “*Process Safety Performance Indicators for the Refining and Petrochemical Industries.*” An API RP 754 support network is available to assist industry in the implementation and execution of the new process safety performance indicators standard to drive consistency in reporting of Tier 1 and Tier 2 events in order to establish credibility and validity of data.

Companies are encouraged to submit their annual Tier 1 and Tier 2 process safety events to both AFPM and API.

Your voluntary participation in this program enables trend sharing and lessons learned from Tier 1 and Tier 2 data analysis as well as lessons learned from effective implementation of Tier 3 and Tier 4 indicators. Support is provided in a variety of ways, through industry workshops, presentations at various forums, and quarterly implementation conference calls with the API RP 754 support network.

For more information and instruction on participation, please visit the AFPM Safety Portal: [www.afpm.org/safetyportal/](http://www.afpm.org/safetyportal/) and API Website: <http://www.api.org/environment-health-and-safety/health-safety/process-safety-industry/measuring-safety-improvement/rp754-webinars.aspx> websites.

### **AFPM Event Sharing Program**

Learning from incidents is an important fundamental element of safety management and incident prevention. The AFPM Event Sharing program provides a mechanism for industry to share causal factors and lessons learned information from API Tier 1 Process Safety Events as well as other Tier 2 events and near misses considered to have high learning value for industry.

AFPM's new “Safety Portal” is an online program designed to support the new programs. An event sharing database is one element of the portal which allows users to access data for company use. Access to the Safety Portal is available to all participating member operating companies, however, a signed “Users Agreement” between the company and AFPM is required.

For more information and instruction on participation, please view the AFPM Safety Portal [www.afpm.org/safetyportal/](http://www.afpm.org/safetyportal/)

### **AFPM Process Safety Hazards Identification Program**

The AFPM Process Safety Hazards Identification program supports the sharing of process safety hazards. The program provides information and ready guides for potentially overlooked and not widely known process safety hazards and shares process safety hazards lessons learned from industry related events in order to improve process safety awareness.

Specific standards and recommended practices (e.g., API, NFPA, ASME) exist that highlight and identify hazards for industry, however, these standards and recommended practices address only a small portion of all the activities and practices utilized in industry. The Process Safety Hazards Identification program is designed to fill the gap between existing industry standards and recommended practices and other activities and associated practices used by industry.

For more information and to explore documents, please visit the AFPM Safety Portal [www.afpm.org/safetyportal/](http://www.afpm.org/safetyportal/)



### **AFPM Process Safety Regional Networks**

Process Safety Regional Networks across the US provide informal collaboration opportunities for process safety practitioners at the site level. AFPM coordinates and facilitates the plant level discussions which encourage regional peer to peer networking and an exchange of ideas to enhance overall process safety performance. Agenda items typically focus on appropriate sharing of process safety practices, lessons learned, industry standards, regulatory challenges, and hazard identification.

For more information and instruction on participation, please view the AFPM Safety Portal [www.afpm.org/safetyportal/](http://www.afpm.org/safetyportal/)

### **API Process Safety Training and Certification Program**

API's Process Safety Training program allows industry to define process safety training priorities and associated course criteria to be offered by API certified 3rd Party Training Providers.

Through API's "*Training Provider Certification Program*", industry develops training criteria, including course design, learning objectives, competencies, and verification requirements. Training vendors and companies are then provided with consistent process safety training course criteria and API certification ensures training will meet industry's expectations.

To participate in defining process safety training priorities and course criteria development, or for additional information and instruction on participation, please visit the API website at <http://www.api.org/certification-programs/training-provider-tpcp/advancing-process-safety.aspx>

### **API Process Safety Site Assessments Program**

The API Process Safety Site Assessment Program is focused on the higher risk activities in a petroleum refining facility. This program will primarily involve the assessment of a site's Process Safety systems by independent and credible third party teams of industry-qualified process safety expert assessors.

Through the use of industry developed protocols, the assessments will evaluate both the quality of the written programs and the effectiveness of field implementation. The areas covered in the site assessment program include:

- Process Safety Leadership
- Management of Change
- Mechanical Integrity (focused on Fixed Equipment)
- Safe Work Practices
- Operating Practices
- Facility Siting
- Process Hazards Analysis
- HF Alkylation/RP 751

This new program is designed to promote learning from sharing of experiences and industry proven practices, provide benchmarking opportunities for a site through the use of industry-developed protocols, and serve as a feedback mechanism for analysis of performance data to identify trends and patterns.

For more information and instruction on participation, please visit the API website <http://www.api.org/environment-health-and-safety/process-safety/advancing-process-safety-programs/api-process-safety-site-assessment-program.aspx>