WHAT IS PSSAP?

PSSAP demonstrates a commitment to a culture of safety and continuous improvement.

PSSAP is an effective and efficient assessment program that looks beyond regulatory compliance to drive continuous improvement in process safety.

During a PSSAP assessment, a team of independent, third-party process safety experts spend about a week at a site, working with employees and leadership — across shifts — to fully evaluate the health of the existing process safety systems.

PSSAP is different from a typical audit.

PSSAP promotes step changes in performance through the sharing of experiences and industry-wide practices, and serves as a mechanism to identify industry trends and patterns.

PSSAP looks beyond regulatory compliance and helps facilities benchmark their programs to help each site prevent a process safety event.

Recommended Practice 751: Safe Operation of Hydrofluoric Acid Alkylation Units

- PSSAP assessments include a specific protocol to ensure hydrogen fluoride (HF) units are meeting the stringent requirements of API Recommended Practice 751, “Safe Operation of Hydrofluoric Acid Alkylation Units.” RP 751 provides information to refiners on the safe operations of HF alkylation units; is used worldwide as the global standard on HF alkylation units; and provides guidance, recommendations, and proven industry practices on the safe operations of these refinery units.

- RP 751 also helps refineries perform Process Hazards Analyses per Occupational Safety and Health Administration (OSHA) regulations, is OSHA-recognized as the way to operate HF alkylation units, and has even been recommended to U.S. refiners by the Chemical Safety Board (CSB).

- Repeat assessments of API’s RP 751 show a marked improvement in all cases.

Contact Information:
For more information, contact: pssap@api.org or call (281) 978-4940.

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PSSAP is an Effective and Efficient Process.

The entire process – from the establishment of a PSSAP schedule to the final assessment report – takes about 6 - 12 months, depending on how quickly the site provides information to PSSAP, prior to the commencement of the on-site assessment.

While each assessment is customizable, based on the size of the site, a typical assessment takes about five days, with many opportunities to learn through engagements with the assessors. PSSAP assessors work with a site to schedule meetings with the site’s subject matter experts (SMEs) and PSSAP assessors spend a considerable amount of time in the field at a facility, holding employee discussions across shifts. There are daily de-briefs and a closing conference to review key highlights and opportunities for each protocol or area assessed.

Following the on-site assessment, a PSSAP report is developed and provided, including a collection of what is working well and a set of observations about the implementation of existing policies and procedures in the field.

Following the assessment, the PSSAP team provides observations on what is working well, Opportunities for Improvement (OFI), and benchmarking data that can be used to enhance process safety and improve safety performance outcomes at a facility. A final report, delivered about four weeks post assessment, includes an executive summary and a detailed write-up for each protocol assessed. Each protocol detail has observations, opportunities for improvement and good practices, as well as individual scores for each question in the protocol. Benchmarking information is also provided so a site can review how it compares with others that have undergone PSSAP assessments.

PSSAP is an initiative that has proven to be effective in improving safety performance for refineries and petrochemical facilities of all sizes. The program offers the following approaches, to ensure that each assessment is site specific:

- Full Assessment of Protocols 1-9
- Full Assessment of Protocols 1-9, plus audit per API’s HF Alky/Recommended Practice 751, ‘Safe Operation of Hydrofluoric Acid Alkylation Units’ (HF RP 751)*
- Audit per API’s HF Alky/Recommended Practice 751, ‘Safe Operation of Hydrofluoric Acid Alkylation Units’ (HF RP 751) PSSAP

Sites may select any combination of protocols.

* The HF RP 751 assessment can serve as a site’s three-year API RP 751 audit.