Abstract

Lockheed Martin in conjunction with one of the top five energy companies has been a leading global exponent of process safety over the past three years.

A programme initially supported by Lockheed Martin has been adopted and developed into a multi-strand approach for Oil & Gas and Generation businesses focusing on the development of an integrated Process Safety Management system. Based originally on UK HSE guidance on developing process safety indicators (HSG 254) and supported by numerous other international standards including ISO55000:2014 (Asset Management) and API Recommended Practice (RP) 754, Process Safety Performance Indicators our programme address the subject at every level in an organization.

A critical success factor in the programme was the development by Lockheed Martin of a near real-time KPI monitoring system, which was introduced to enable staff at all levels to see the current status of the risk control barriers across all assets regardless of age, type and level of automation.

The programme has been enhanced over the past three years and received numerous “best in class” awards for innovation in process safety from bodies such as Institution of Chemical Engineers and Institute of Risk Management.

Today the program is being rolled out in Oil & Gas and Utilities organizations operating in the UK, Europe, Australia, New Zealand and North America, all at differing stages of the life cycle.