Adoption of Recent Industry Guidance on Process Safety Key Performance Indicators: An LNG Operator’s Experience

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ABSTRACT

Since the major incidents at Texas City refinery and Buncefield oil depot in 2005, the oil and gas industry has embarked on significant efforts to establish a system of performance indicators, the collection of which allows operators to better gauge the risk of suffering a major incident and, more importantly, identify the precursors to major incidents and mitigate these, thereby improving process safety performance. The 2010 Macondo blow-out reinforced the industry’s prevailing and urgent requirement for a reliable system of metrics.

RasGas Co Ltd, an LNG producer, has adopted the recently published *Process Safety - Recommended Practice on Key Performance Indicators* (Report no.456) by the International Association of Oil and Gas Producers for the upstream industry, based on the ANSI / API 754 recommended practice for downstream, approved in 2010. This presentation will cover how RasGas has adopted the four tier KPI model practically, including the first year of Tier 3 and 4 leading KPI collection and analysis in 2012. The important role that the company’s management system plays in providing the basis for Tier 4 metrics will be demonstrated.