JOURNEYS OF PSM IMPLEMENTATION AT TAIWAN FPG

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ABSTRACT

Formosa Plastics Group (FPG) was found in 1955 as a small private company. Over time, through acquisitions and advanced growth, the company has now grown to its current size with total sales of 79 billion US dollars in 2014 including business of chemical, petrochemical, medical, electronic, automobile, etc. To sustain the healthy economic growing in the early of 90s, FPG constructed a naphtha cracking project so called “Sixth Naphtha” through the land reclamation with total of 8 kilo meter long by 6 kilo meter wide located at Mailiao of Yunlin County. Up to date, 65 units were operated in this complex.

In late of 2010, Mailiao Complex experienced several fire accidents. The Mary Kay O’Connor Process Safety Center (MKOPSC) was requested to conduct studies and investigations. The objectives of the study were to evaluate the complex operational and safety practices. A recommendations report was presented to top management officials in 2011.

By the direction of designated Environmental & Safety Official, a series of renovation on Safety especially PSM aspect was take into consideration. This presentation describes the experience of transformation and results of cooperation with MKOPSC since 2010. The structure of safety organization was reformed to respond the needs of process safety performance. Each element of PSM program was reviewed and enhanced. Third parties were brought in to review PSSR when a unit turnaround was performed. Independent third parties were conducted PSM auditing to address safety culture of the corporation and company risk ranking matrix issues.

Through these years, FPG has committed to follow up international best practices in PSM aspect. Government regulations, company procedures and site-work safety practices are the first priority for the PSM Implementation. A series of PSM employee training is in place. The personnel from MKOPSC were invited again to review the progress of PSM implementation. The report demonstrates that the dramatic improvement has been achieved.

However, Process Safety, like success, is a journey. Teamwork and participation from every employee on a sustained basis represents success of PSM implementation.