Practical Applications Approach to Design, Development and Implementation of an Integrated Management System

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ABSTRACT

The introduction of Quality, Risk, Safety and Environmental management philosophies has significantly changed industry’s view of company organization and controlling processes. Quality, Risk, Health and Environmental programs and systems, such as ISO/QS 9000, ISO 14000, Process Safety, and Risk Management are impacting the way industry will meet the challenges of safety and environmental risks and the needs of the customer in the future.

A wealth of knowledge can be extracted from practical application case studies, which might otherwise be unobtainable without years of experience related to management systems design, development, implementation and control.

This paper discusses a practical applications approach to design, develop and implement an integrated Management System encompassing Quality (ISO 9000), Process Safety (CFR 29 1910.119 and CFR 40 part 68), Environmental Management (ISO 14000) and Safety and Health. This paper includes a discussion of management systems integration and an overview of management systems standards that apply to the petrochemical industry. The paper also provides an overview on integrating management systems, including issues related to the following topics:

- Establishing a Management Systems Team and Objectives
- Assessing and Knowing your Organization
- Designing the Management System to Meet Site Objectives
- Developing System Documentation
- Effective Implementation of Management Systems
- Measuring Program Performance and Continuous Improvement