

RISK MANAGEMENT UNIFIED FOR PLANTS AND DUCTS

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Abstract

Diverse approaches and models for the implementation of Integrity Management Systems (IMS) in the oil and gas industry have been developed locally for more than ten years. Those activities have been focused on two types of facilities, pipelines and plants, implementing international standards and local regulations.

Many of the concepts applied in the integrity management for different surface facilities in oil fields, classified mainly in plants and ducts, are common to both types of systems. However, some of the elements that define the process of integrity management, must be designed according to the specific characteristics of each type of facility.

An IMS model of surface facilities has been developed and implemented unifying the management of plants and ducts, optimizing main aspects such as:

- Models and tools of risk evaluation and management
- Design of risk based plans
- Geographic Information System (GIS)

The current study is based on the main aspects and results of the implementation of the unified IMS.

Key words: risk, integrity management, plants, ducts, unified IMS