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for Pipelines
Integrity Management
ARPEL Reference Manual for Pipeline Integrity Management
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Pipelines and Terminals Committee

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The objectives of ARPEL Pipeline integrity Project Team as established by the Pipelines and Terminals Committee are the following:

- To create a reference manual to develop Integrity Management Programs.
- To facilitate the exchange of experiences and common criteria on Pipeline integrity among ARPEL Member Companies.
- To promote the reduction of the pipeline integrity management gaps among different companies.
- To share and develop best practices for excellence in operational integrity management.
- To adopt the best practices as established by international standards.

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1. Introduction and Purpose

The integrity of an equipment or facility is its ability to perform the function for which it was designed safely and reliably, without affecting the security of people or the environment. Pipeline integrity management is a set of coordinated actions whose objective is to maintain during the useful life of a pipeline and its facilities, the performance planned as it was designed, while efficiently managing the risks related to potential threats and the consequences of any failure on the environment, health, safety, corporate image, customers, economic losses and physical security, within the social responsibility, environmental health and safety policies of the operating companies.

This document aims at providing a general guideline to ARPEL Member Companies and other oil and gas sector operators, so that they may check their own management and/or apply the best practices to ensure the integrity of gas, liquid hydrocarbon and biofuel pipelines in order to achieve excellence in its operational, social and environmental responsible management. The guidelines and practices established in this document are indicative and not mandatory. This document does not reflect the legal requirements of specific jurisdictions. The companies should be aware of the corresponding requirements applicable to their respective jurisdictions.

This Manual is accompanied by an Excel™ file with check lists to establish the baseline of the pipeline and for each threat (internal corrosion, external corrosion, third party actions, natural forces and operational errors) with the purpose of facilitating the review and compilation of the information required to support the assessment of the probability and consequences of failures during the risk analysis exercise. Although these check lists are described in this Manual, the electronic file allows the user to print it for field work purposes as well as to include comments and distribute it electronically among the professionals responsible of the integrity program of the company.