ERSG
Enterprise Risk Solutions Group Ltd

PIPELINE RISK ASSESSMENT

SUBJECT:
PIPELINE RISK ASSESSMENT

OUR SERVICES COVER THE FOLLOWING AREAS:
Process Hazard Analysis
Enterprise Risk Management
Project Management
RUBI–Software
Business Continuity Systems
Process Safety Management
Risk Training Solutions

Introduction

Risk Management Solutions for Dynamic and Progressive Industry

Pipeline Risk Assessment (PRA) in addressing recent Australian regulatory initiatives, ERSG has developed pipeline IMP plans and transmission/distribution/gathering/facilities risk management plans. This work includes the IMP-related elements; integrity threat classification, consequence analysis, impact modelling, databases development, risk assessment, risk-based segment prioritization, risk model validation, integrity assessment justification, baseline assessment plans, risk mitigation measures, direct assessment.

Also, our Risk Engineers have over 15 years of experience developing pipeline procedures and plans related to training, performance, communications, quality control and management of change (MOC).

Services

ERSG can provide a full range of **Pipeline Risk Assessment** services, using a variety of techniques:

- Risk Assessment
- Risk Management
- Integrity and Risk Management Plans
- Procedures and Plans
- Environmental Impact Assessments
- Pipeline Risk Assessment Workshop

ERSG USES THE FOLLOWING METHODS AND SOFTWARE

Methodology

With risk assessment emerging as an important engineering discipline and acceptable risk criteria prescribed in Australia, the pipeline committee of Standards Australia (ME/38), incorporated in AS2885 (Part 1 Issue 2007) a uniform methodology for risk identification and assessment of risks associated with pipelines. A qualitative approach was adopted in this standard, whereby threats to the pipeline integrity are systematically identified, and corresponding risks associated throughout its entire length. To assist in better implementation of this approach ERSG now use the companion document to the standard (SAA HB105-1998). The following risk categories are considered:

- Internal Corrosion
- External Corrosion
- Third Party Damage
- Stress Corrosion Cracking
- Manufacturing Defects
- Construction Defects
- Equipment Failure
- Incorrect Operation
- Weather Related / Ground Movement

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PIPELINE SOFTWARE TOOL

The ERSG Risk Division uses **'Pipeline Risk Controller V2'** software for risk assessment allowing the organization to divide the pipeline system into sections, gather meaningful data on each section, and assess the risk of each section. A host of analytical routes then allows you to slice and dice the data to get risk based information out of the data.

Requirements:4Mb RAM, 2Mb Hard Disk, Windows®, 98, NT, 2000, XP.