



AS2885.1 Public Comment Launch
The Seven Fundamental Principles

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Legislative framework

- pipelines are regulated by states and territories
- pipelines must be licensed
- licensee responsible to state or territory regulators
- AS2885 adopted by CoAG as “single” standard
- but not in practice nowadays as a “sufficient” standard



Seven Fundamental Principles: No. 1

- ... the standard exists to ensure:
 - the safety of the community
 - protection of the environment
 - security of supply



Seven Fundamental Principles: No. 2

- ... a pipeline shall be designed and constructed to have sufficient strength, ductility and toughness to withstand all planned and accidental loads to which it may be subjected during construction, testing and operation



Seven Fundamental Principles: No. 3

- Before a pipeline is placed into operation it shall be inspected and tested to prove its integrity.



Seven Fundamental Principles:

No. 4

- Important matters relating to safety, engineering design, materials, testing and inspection shall be reviewed and approved by a responsible entity. The responsible entity shall be the pipeline licensee or its delegate. The responsible entity shall, in each case, be defined.

Seven Fundamental Principles: No. 5

- The integrity and safe operation of the pipeline shall be maintained in accordance with an approved safety and operating plan

Belgium

- 42" dia pipeline, X70, 13.6mm WT, operating at 7 MPa.
- Leak followed by subsequent catastrophic failure (rupture) and fire.
- **18 dead and about 120 people seriously injured.**
- 3rd party construction team building roadway foundations within industrial estate
- Site not evacuated when escape reported

Seven Fundamental Principles: No. 6

- Where changes occur in or to a pipeline which alter the design assumptions or affect the original integrity, appropriate steps shall be taken to assess the changes and to ensure continued safe operation of the pipeline

e.g. change in

- gas composition
- temperature
- pressure cyclic frequency
- etc

Seven Fundamental Principles: No. 7

- Before a pipeline is abandoned, an abandonment plan shall be developed



Concluding remarks

- AS2885 is a sound set of standards
- the detail is founded upon
 - sound principles
 - continuous improvement and buy-in from all stakeholders
 - world's best practice standardisation and research including a strong Australian research effort
- the requirements should not just be the “single” Australian Standard; they should be “sufficient” as well
- the current plethora of additional requirements being imposed in some state jurisdictions is a disincentive to pipeline projects and is a penalty to economic and social development



A large, clear, faceted diamond is the central focus, resting on a vibrant green leaf. The leaf's intricate vein structure is clearly visible, and several small, glistening water droplets are scattered across its surface. The diamond's facets catch the light, creating a brilliant, multi-colored reflection. The overall composition is clean and natural, suggesting purity and value.

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