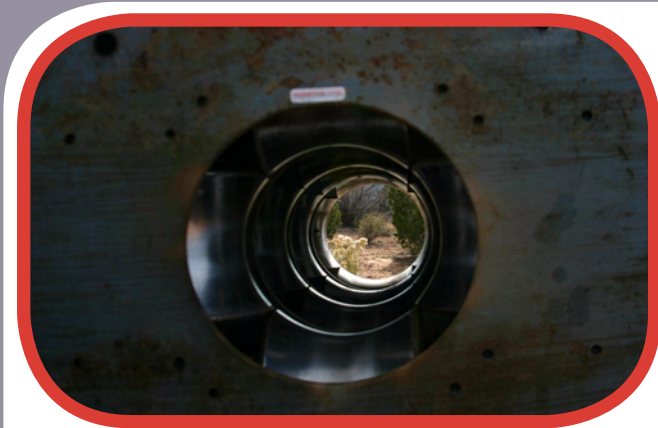




Safetyliner™ Systems

Pipeline Integrity Management



Safetyliner™ Features

Systems Approach

The Safetyliner™ system complements all recognized risk management programs. Its unique capabilities provide benefits on two major axes of risk quantification: reducing probability of the occurrence and minimizing the consequences associated with an event. Also, novel installation techniques reduce construction downtime, minimizing lost revenue.

Structural reinforcement

The flexible nature of the plastic liner is employed to great effect. Within the host pipe, it distributes internal pressure loading across isolated weak points (external pitting). This inherent bridging capability allows for hydrotest requalification of derated pipelines, as high as original design pressure.

Corrosion prevention

Thermoplastic liner systems have provided the gold standard against internal corrosion for over 20 years. The Safetyliner™ system continues this tradition, going further by maximizing the performance envelopes of existing liner materials.

Crack propagation deterrent

Because the annulus between the liner and the host pipe operates near ambient pressure, potential for crack propagation failure in the pipeline is greatly reduced. If the host pipe does split due to stress, crack tips will not run along the pipe, since there is no high pressure medium to drive the action.

Integrated Joining Systems

A comprehensive approach minimizes joint failure risk. Long insertion lengths, often greater than a mile, minimize risk exposure. Also, the optional welded flange eliminates bolt corrosion potential and/or inadequate sealing.

Advanced Materials

Select engineered thermoplastics are put to best technical and economic effect. The Safetyliner™ system's unique venting ability greatly reduces degradation of polymer performance, extending the functional life to several times that which is normally available.



Safetyliner™ Benefits

Leak detection

Longevity of leaking pipeline assets may be extended indefinitely. The system's unique ability to measure any potential leak at the zero-tolerance threshold using a continuous sampling basis means total integrity to the pipeline operator.

Improved flow properties

Liner interiors are virtually glass-smooth throughout their operating life. In almost all cases the lower dynamic resistance translates to increased throughput and/or measurably reduced pumping/compression costs.

Multiple applications

Years of practical experience are applied to each project. Pipeline conditions are mated to advanced polymer liners produced to exacting geometry. The system may be used in virtually all pipelines including gas, liquid, multi-phase, slurry, petrochemical, and water.

Reduce Risk in high consequence areas

- Dense population zones
- River, wetland & aquifer crossings
- Environmentally sensitive rights-of-way

For technical and sales information, please contact:

United Pipeline Systems

1-800-938-6483

135 Turner Drive

Durango, CO 81303

Email: ups@insituform.com

