



SMART PIPE®

A NEW LIFE FOR AGING PIPELINES

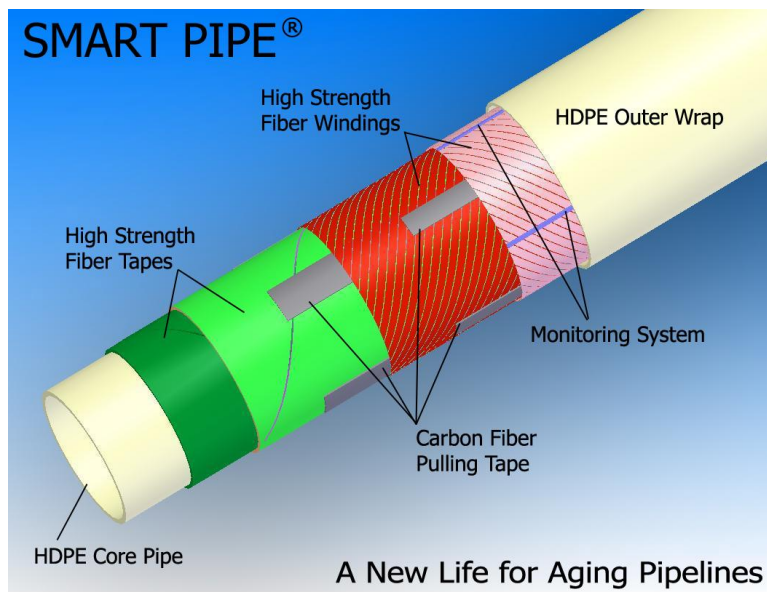
The Challenge

America's energy pipeline network carries the vital gas, oil, and products that keep this nation running. The network has reached a critical age. More than half of this 2.5 million mile network has reached or exceeded its design life of 40 years. Of particular concern is the 70 thousand miles of urban and environmentally sensitive pipelines that constitute serious safety risks to population centers and are also prohibitively costly to repair or replace.

The Solution

Smart Pipe® is a high pressure reinforced thermoplastic pipe (RTP) that:

- Is designed and developed in accordance with API Recommended Practice 15S "Qualification of Spoolable Composite Pipe."
- Is simultaneously manufactured and installed as a tight fit liner in up to 50,000 feet of an underground pipeline without any disruption of the surface areas covering the pipeline (except for a small opening at the entry and exit points of the pipeline section being lined);
- Restores the subject pipeline to its full pressure service rating, renews the projected service life of the subject pipeline to like new or better than new condition, and in most cases does so without diminishing the flow rates through the line despite the nominal reduction in inside diameter of the pipeline that occurs due to the presence of the liner; and
- Provides the operator of the pipeline with continuous monitoring and inspection features to assure safe operation of the line throughout the renewed operating life of the pipeline and to provide compliance with the regulations now emerging under the various Pipeline Safety Acts.



PATENT PENDING

A concept drawing of the Smart Pipe® liner is shown above. Actual installations are custom designed for the specific requirements of the application.

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