

SoundPrint[®] AFO Pipeline Monitoring

Continuous real-time structural monitoring for PCCP pipelines

AFO Technology

SoundPrint Acoustic Fiber Optic (AFO) monitoring is a system used to detect and locate wire breaks in Prestressed Concrete Cylinder Pipe (PCCP) as they occur; wire breaks in PCCP are the main indicator that this pipe type will eventually fail.

The technology provides continuous remote monitoring for pipelines and can be deployed and commissioned without dewatering the pipeline. The real-time data collection allows the utility operator to effectively monitor changes in structural integrity and intervene on distressed pipes before they rupture.

As wire breaks occur, utilities can use the data to complete further engineering analysis to determine yield limits and rates of failure for the system.

Benefits of Pipeline Monitoring

- Can be installed in dewatered or in-service pipelines
- Real-time data acquisition allows for quick responses to structural changes and helps prevent pipeline ruptures
- Allows pipeline operators to manage their pipeline assets in between condition assessments

