Technical Insights

Persistent liquid accumulation problem solved with Innopipe

Innopipe tackles persistent corrosion

For pipeline integrity and corrosion teams, managing liquid flows consistently present challenges. Persistent liquid accumulation can create ongoing exposure to internal corrosion, contribute to black powder formation, increase maintenance requirements, and lead to downstream reliability and operational challenges. Operational changes in baseline operation, flowrate, pressure, phase ratio, temperature or inhibitor programs create new challenges.

This raises two important questions: How and where do we effectively remove liquids? More importantly, how can we manage liquids proactively to prevent integrity and corrosion issues?

Innopipe technology takes the familiar concept of a “log drip, drip log, or pipeline drip” and transforms it into a piggable, inline liquid management system designed to mitigate liquid accumulation continuously during normal gas flow.

The Innopipe system:

- **Separates liquids within the pipeline** while allowing dry gas to flow downstream
- **Continuously drains separated liquids** to a controlled collection point to prevent liquid accumulation within the pipeline
- **Provides a piggable design** that can integrate with existing inspection, integrity and maintenance programs
- **Enables earlier liquid management** to address liquid carry-over before exposure develops into expanded or new corrosion.

Innopipe achieves this without requiring a large separator vessel, a bypass, or shutdown.

From a pipeline integrity perspective, the Innopipe value is straightforward: manage liquids early, reduce ongoing exposure, and help protect the pipeline before new and existing corrosion and reliability concerns escalate into downtime, repairs, or capital equipment replacement.