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Atmos Operations Management Suite

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Giving the pipeline operators a dashboard view of all activities within the pipeline

It is important for operators to have a clear view of how the operation of their pipeline is affecting the business overall. There are financial, efficiency and safety issues to take into consideration, as well as commitments to customers. These commitments include being able to schedule the products to arrive in a timely fashion, give accurate product arrival time and ensure product quality. Atmos Operational Suite offers a range of solutions to give a clear dashboard of information to the pipeline operator.

Some of the challenges for pipeline operators are:

Tracking within the pipeline – It is important to be able to predict the arrival times at specified destinations of assets within the pipeline, such as pigs or batches of fluid.

Monitoring along the distribution chain – Companies need to monitor the progress of their product as it goes through buying, selling and transportation

Running efficiently and cost effectively – Operators are responsible for ensuring the pipeline runs at maximum efficiency, helping to reduce costs for the whole company and maximizing profit

T**racking the quality and certification of a product** – enables the traceability of products as they are distributed across a network and subsequent safety when they are used

Interfacing between systems – It is essential that any new system is compatible with existing DCS and SCADA systems installed

Why use a system from Atmos Operations Management Suite?

Saving time, saving effort and saving money. This is what a pipeline operator will be doing if they choose to use a system from the Atmos Operations Management Suite. The suite is a collection of systems dedicated to helping smooth and efficient pipeline operations. The systems are tailored to deal with a range of different challenges associated with running a pipeline. These challenges range from the physical movement of product to its destination to the business end of operations: Accurate recording of fluid and its quality to fulfil sales and transportation agreements.

An operator's time is valuable and can be stretched thinly. Being able to view and monitor the pipeline activity at a glance saves time and ensures the safe and optimal running of the line, as well as a high product quality. As a real-time system that constantly monitors the pipeline there is a fast response time to customer needs and hence a better level of customer service is provided.

All Atmos systems take their data directly from the DCS, SCADA or PLC. The systems have their own displays via the Atmos Graphical User Interface (GUI), or the data can be returned to and displayed by the SCADA or DCS system if the operator chooses. Reports of information are also available to export to PDF or CSV form.

A wide variety of output information is accessible depending on the area of interest. These range from an archive of pig launches and receipts, estimated batch arrival time, an optimized cost breakdown of energy used in the line, stock management inventory and many others.

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The systems are incredibly durable. Stop, start or reversal of the flow of product does not cause loss to the systems, so an operator can be confident that the information they are receiving is reliable.

Safety is paramount in the running of a pipeline. Atmos systems can help provide peace of mind to the operator with a variety of safety features. Atmos systems can help provide peace of mind to the operator with a variety of safety features.

- Assess whether a schedule will exceed operating limits

- Provide pig stuck warnings and alarms

- Track of anomalies within batch transportation and their growth

- Interface tracking to ensure that a batch is not contaminated:

Atmos Operations Management Suite includes:

Atmos Pig for Liquid or Gas

Pipeline pigs or scrapers are used frequently either to maintain the efficiency of the infrastructure or inspect its integrity. Atmos Pig monitors the progress of pigs from the launcher through to the receiver. It gives accurate and up-to-date locations and estimated arrival time to intermediate stations along the pipeline. This ensures the operator can accurately plan operations as the pig passes through the pipeline.

Atmos Batch

When transporting product through a pipeline, operators could be dealing with many types of products going to different locations with varying ownerships. Being able to accurately forecast where batches start and end, the size of the batch volume and the time they are due to arrive at their destinations is essential.

This ensures that the correct product goes to the correct end user and, more importantly, that the product is not contaminated. and transportation processes. The main functions include contract nomination, stock account, stock management, gas balance management/reconciliation, and statement and reporting.

Atmos GMS

Atmos gas management system is a web-based management solution for transmission companies. Companies can manage business information and track transportation contracts across their network through the buying, selling

Atmos Optimizer

Atmos Optimizer compares many different operating scenarios to determine the optimum case of running a pipeline, and therefore the minimum cost for meeting the supply and demand schedule. This system is used for liquid pipelines, either as a stand-alone offline tool or online using real-time data from Atmos Batch and the SCADA.

Atmos Hydraulic Profiler

The Atmos Hydraulic Profiler takes pressure measurements from the pressure transmitters installed on the pipeline and interpolates between the known measurements giving a real-time representation of the pipeline hydraulic conditions. This enables the operator to run the pipeline in the cheapest and safest manner.

Atmos International (Atmos) provides pipeline leak detection and simulation technology to the oil, gas, water, and associated industries. The company was founded in 1995 in the UK by the inventor of the statistical pipeline leak detection system – Atmos Pipe, now one of a suite of leak and theft detection solutions from Atmos. These technologies are implemented on hundreds of pipelines in over 50 countries, including major oil and gas companies such as Shell, BP, ExxonMobil, and Total.

With associated offices in the USA, China, Russia, Singapore and Costa Rica, and local agents in 28 countries, the multi-cultural and multilingual team can provide effective support all over the world.

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