



MANAGING H<sub>2</sub>S and CO<sub>2</sub> GAS PROCESSING FACILITIES IS A FUNDAMENTAL COMPONENT OF OIL AND GAS PRODUCTION. HOWEVER, MANY COMPANIES HAVE YET TO MOVE BEYOND TRADITIONAL METHODS AND MANAGE THESE FACILITIES TO THEIR POTENTIAL

## The Challenge in Managing H<sub>2</sub>S and CO<sub>2</sub> Gas Processing Facilities

Facilities that process acid gas are dynamic operations with continuously changing conditions. However, they are commonly managed with several different static methods which can result in financial loss and legal risk.

### Discrete Composition Analysis

Gas stream composition data from sample bombs is normally used to represent a duration of time such as a week or a month. The truth is that a snapshot in time simply does not reflect the reality of a continuously fluctuating process.

### Manual Data Gathering

There are many disparate data sources such as sample bombs, paper charts and control systems that are collected, checked and commonly entered by hand into a mass balance spreadsheet. This involves various parties in a laborious exercise proven to be both costly and prone to error.

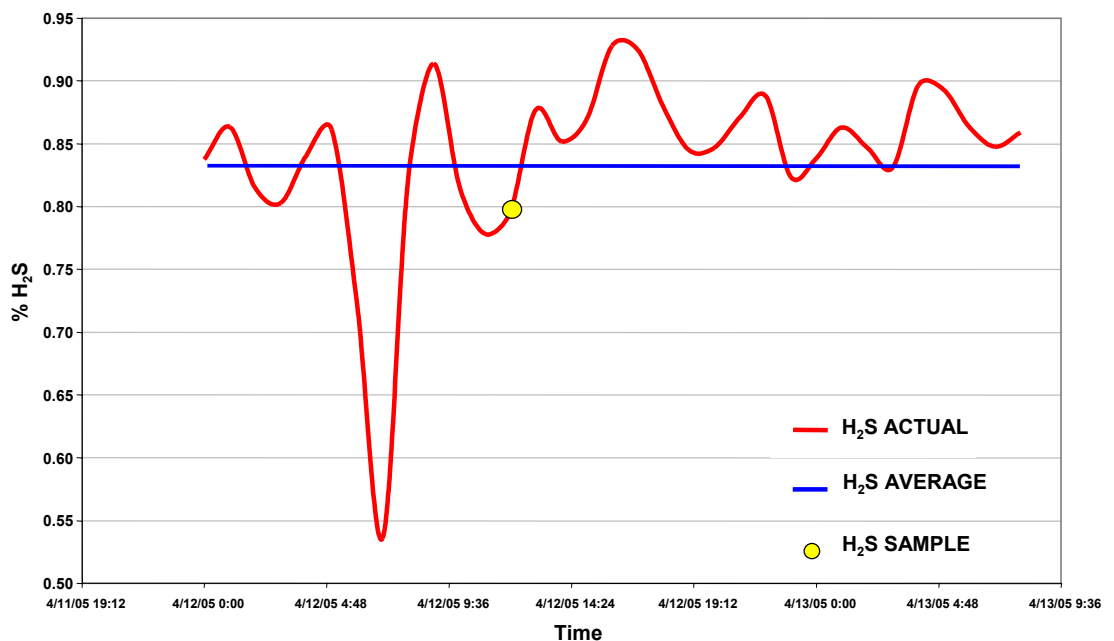
### Inaccurate Regulatory Reporting

Calculations used to determine critical values for regulatory reporting and production accounting are assumed to be simple. But the accuracy required can be difficult to achieve which may lead to incompliant reports and legal risk.

### Costly Operations

Static, unreliable and stagnant process data imparts poor visibility to the process. Thus, operating set points cannot reflect current process requirements and may lead to financial loss.

### Sulphur Content Analysis



# THE SOLUTION

MASS TRAK IS AN INTEGRATED SOLUTION THAT WILL HELP MITIGATE REGULATORY RISK WHILE IMPROVING PROFITABILITY.

## Manage Data Electronically

MASS TRAK collects, validates and transforms all of the required input data digitally. Gas chromatography is incorporated to provide reliable and continuous interval readings of selected gas streams.

## Calculate Results Accurately

Rigorous mass balance calculations are applied to generate accurate results. For example, MASS TRAK accurately calculates the water content of low pressure saturated gas streams that can account for 2-8% of the total composition.

## Automate Reporting

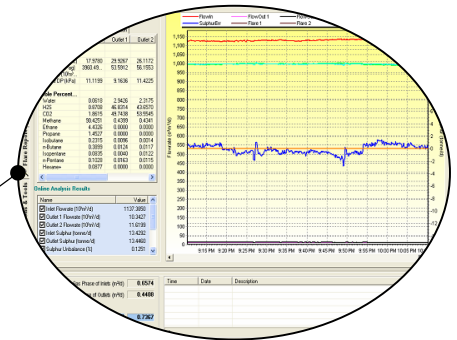
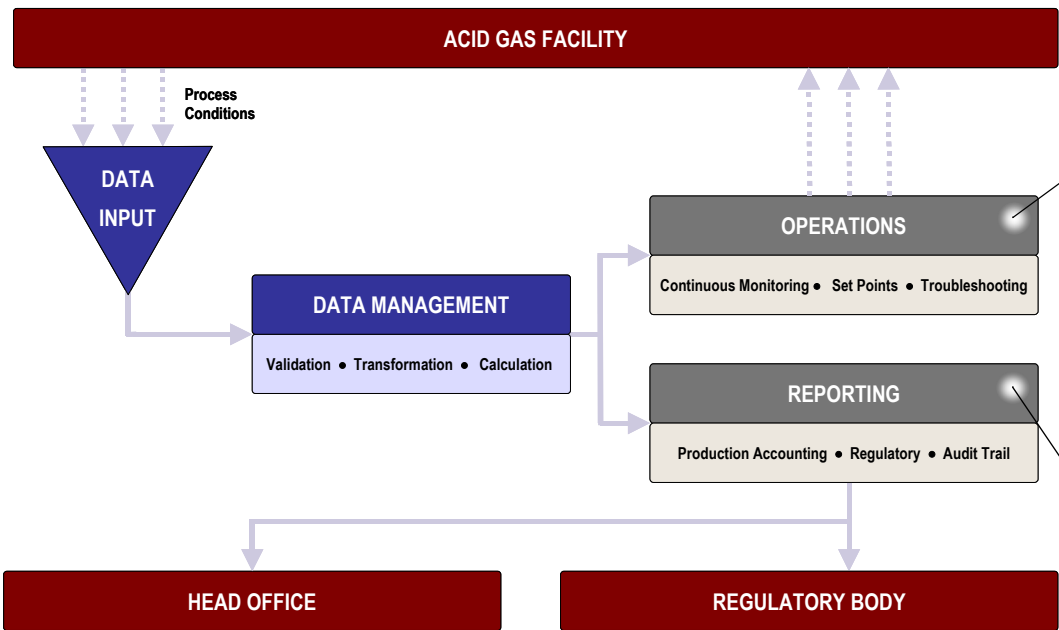
MASS TRAK generates a variety of regulatory reports at the click of a mouse. Historic data is maintained in one location providing an audit trail that can be easily retrieved.

Data can also be seamlessly transferred to other departments such as production accounting.

## Optimize Operations

Continuous monitoring enables operations to optimize process facilities. Process transparency allows realistic set points to be determined and equipment to perform to its ability.

## Acid Gas Process Management



Date	Shift	Flow	Water	Other
1	18:00	1.000	0.000	0.000
2	18:00	1.000	0.000	0.000
3	18:00	1.000	0.000	0.000
4	18:00	1.000	0.000	0.000
5	18:00	1.000	0.000	0.000
6	18:00	1.000	0.000	0.000
7	18:00	1.000	0.000	0.000
8	18:00	1.000	0.000	0.000
9	18:00	1.000	0.000	0.000
10	18:00	1.000	0.000	0.000
11	18:00	1.000	0.000	0.000
12	18:00	1.000	0.000	0.000
13	18:00	1.000	0.000	0.000
14	18:00	1.000	0.000	0.000
15	18:00	1.000	0.000	0.000
16	18:00	1.000	0.000	0.000
17	18:00	1.000	0.000	0.000
18	18:00	1.000	0.000	0.000
19	18:00	1.000	0.000	0.000
20	18:00	1.000	0.000	0.000