

ENERGY MANAGEMENT WORKSHOP 2007

Fuel Gas Practice

Don Gabruck

A Responsible Fuel Gas Reporting Procedure



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Fuel Gas Accounting & Reporting Needs

- Process needs to be developed to account for fuel gas usage
- Procedures need to be developed to manage the process
- Specific responsibilities must be assigned

to individuals in the process



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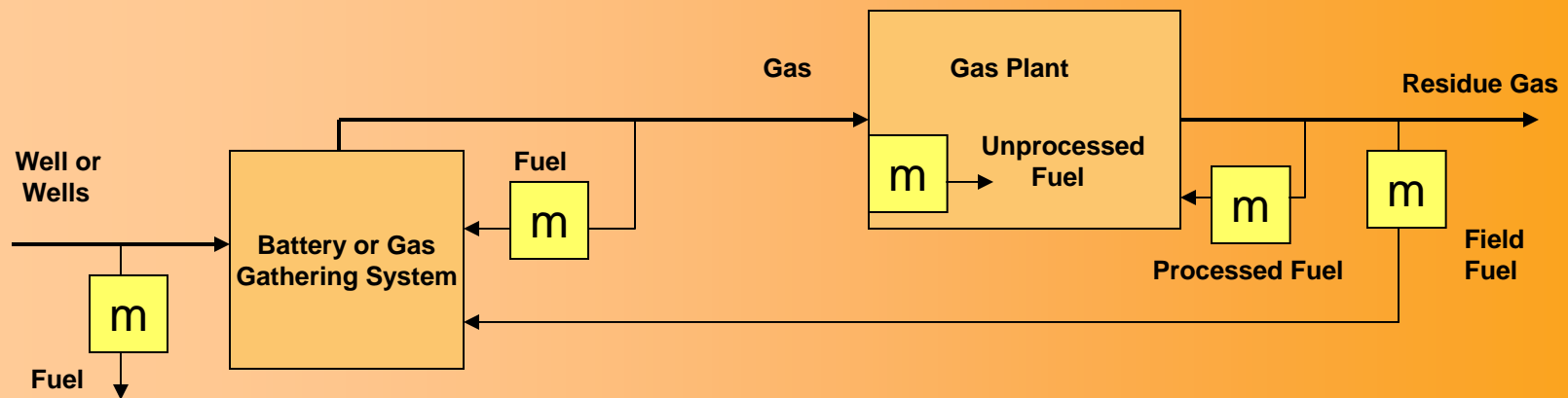
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Typical Fuel Gas Usage

- Metered applications – major consumers
 - Gas plants, major oil batteries, compressors
 - Heaters and reboilers
 - Dehydrators
- Estimated applications – minor consumers
 - Pump jacks
 - Chemical injection pumps
 - Instrument gas, pilot lights for stacks
 - Catadyne heaters

Regulatory Requirements



m → Single Point Measurement

Below 500 Sm³/d, may be estimated
Above 500 Sm³/d, must be measured

Accountabilities

- Area/Operations Supervisor
 - Has overall responsibility for fuel gas usage
 - Develops process regarding metering or estimating of fuel gas consumption
 - Establishes objectives
 - Delegates work
 - Reviews results



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Accountabilities

■ Operators

- Responsible for field and plant facility operations
- Control fuel gas consumption
- Report fuel gas data to accounting personnel on a monthly basis



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Accountabilities

- Accounting Staff
 - Calculates fuel gas consumption
 - Flags questionable numbers and omissions
 - Prepares production/disposition reports
 - Submits data to head office or EUB



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Accountabilities

- Technical staff
 - Determines what fuel gas must be measured or estimated
 - Develops templates for operators to collect fuel gas data
 - Develops and maintains record of fuel gas estimating procedures and calculations



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Fuel Gas Accounting Process

- Area/Operations Supervisor
 - Develops process, assigns resources, has overall responsibility
- Operators
 - Provide fuel gas data for accounting
- Technical Staff
 - Develops estimating procedures for fuel gas consumption
 - Develops templates for Operators
- Accounting Staff
 - Reports fuel gas consumption
- Key to Success – Good Communications among All



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Management Review

- Check data prior to submission to EUB.

The purpose of this is to:

- Ensure that all the data required is being reported;
- Ensure that the data reported is consistent and accurate;
- Determine what additional steps may be required to improve the efficiency of data collection.



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In Summary

- Improvements are required to manage the fuel gas accounting process
- Proper evaluation of fuel gas consumption will lead to fuel gas reduction
- Industry can become more Efficient and Sustainable
- A successful model can be replicated



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