



A CENTURY OF SERVICE

# Migration to a New Data Acquisition System

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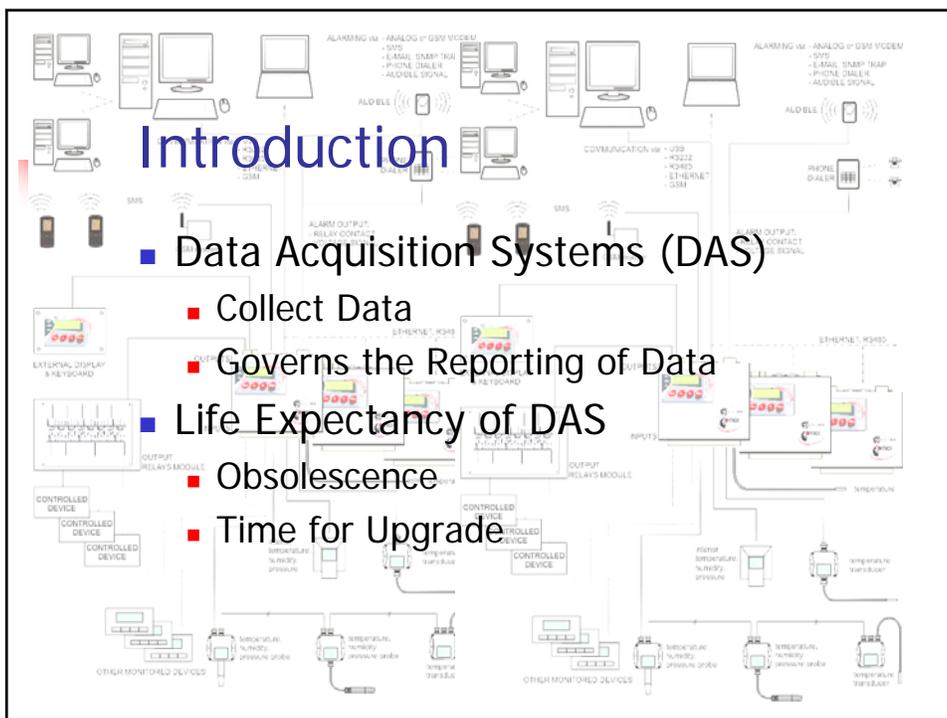
## Introduction

### ■ Data Acquisition Systems (DAS)

- Collect Data
- Governs the Reporting of Data

### ■ Life Expectancy of DAS

- Obsolescence
- Time for Upgrade



## Old DAS

- Advantages

- Fully Customized
- Familiarity



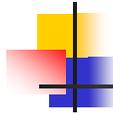
## Old DAS



- Disadvantages

- Proprietary
- ISA Cards (12-bit system)
- Obsolete
- No Real Documentation

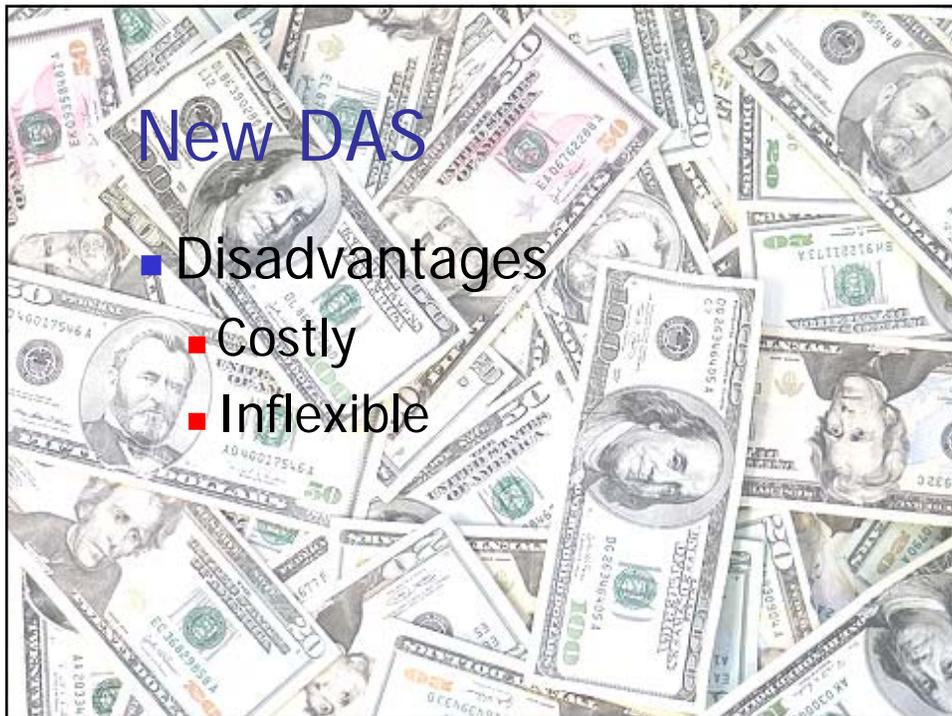




## New DAS



- IPS MeteoStar
- Advantages
  - A Lot of Decisions Have Been Made
  - Advanced Forecasting Tools
  - Data Validation / Quality
  - Powerful (automated gas QC, reports)



## Decision to Upgrade

- Some considerations when Transitioning
  - Data Quality is Always a Primary Concern
  - Effect on the Quality System
- Benefits to Stakeholders
- DAQEM Staff
- Public
- EPA



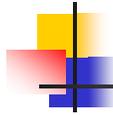
## Project Management Approach

- Transition Process
- Project Documentation
  - Provides Official Authorization for DAS Switch Over
  - Project Charter
  - Project Plan
  - Other Supporting Documentation

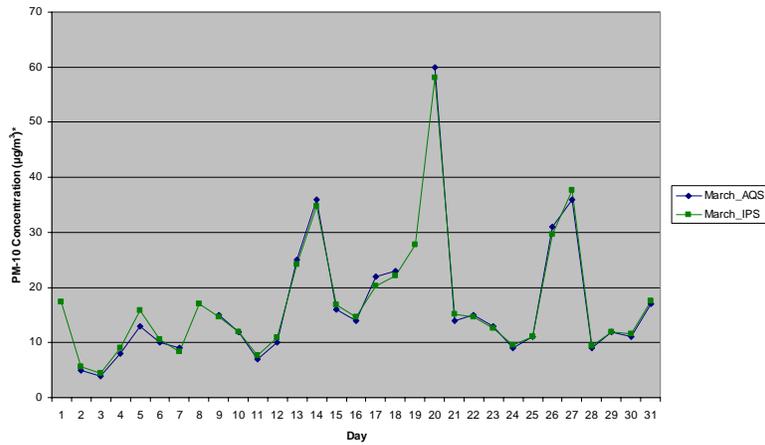




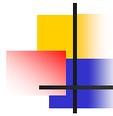
# PM10 at Apex Site Old vs. New DAS



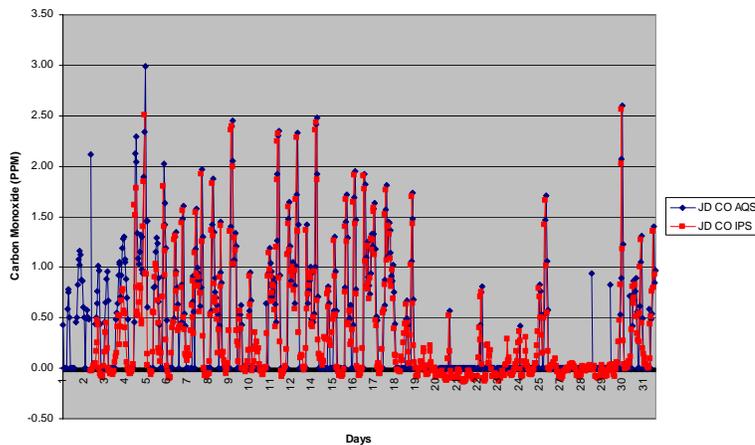
Apex PM-10; ADC vs. IPS  
March-2007



# CO at JD Smith Site Old vs. New DAS



JD CO; ADC vs. IPS  
March, 2007



## Getting Started

- Training
  - Vendor
  - In-House
- User Acceptance
- Going Live
- Stakeholder Expectations
  - Internal
  - External
  - Website



## During the Transition

- Decision Making
  - New Website Development
  - Comparing Data Results
    - Acceptable or Not Acceptable
- Technical Issues
  - Missing NO<sub>x</sub> Data
  - PM<sub>10</sub> (continuous) in 1-Hour Format



## DAS Acceptance

- Final Data Comparisons
- Management Signoff
- Lessons Learned



## Conclusion

- Data Quality
- Quality System
  - Continued Development
  - Continued Improvement
- DAS



Any Questions

