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# ***Emission Reduction Projects A Program Approach***

**Gas / Electric Partnership**

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# *Presentation Goals*

- ◆ Thinking about not only the unit but the system
- ◆ Considerations when approaching an emissions program
- ◆ Gotcha's and Murphy's Law



## *Problem*

- ◆ Recently released NESHAP regulation
  - Three year window
  - Multiple engines – from 10's to 100's per customer
  - Limited resources – internal & external
  - New compliance requirements – monitoring and testing
    - Logging startups and shutdowns
    - Temperature and pressure across the catalyst
    - Maintaining emissions

# *Steps to Success*

- ◆ Site audits
- ◆ Budgets
- ◆ Scheduling and prioritization
- ◆ Permitting
- ◆ Design
- ◆ Install
- ◆ Commission
- ◆ Training

With a system wide program the first several steps are key to success!

# Outcome

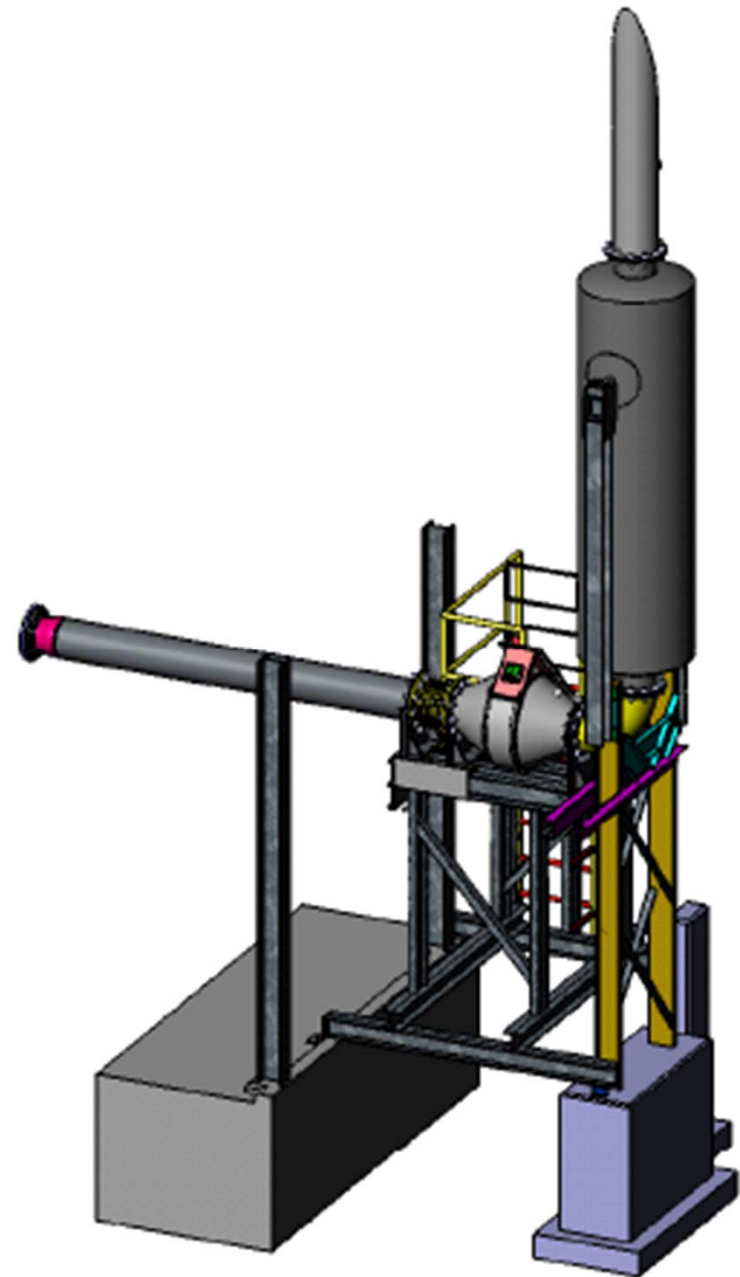
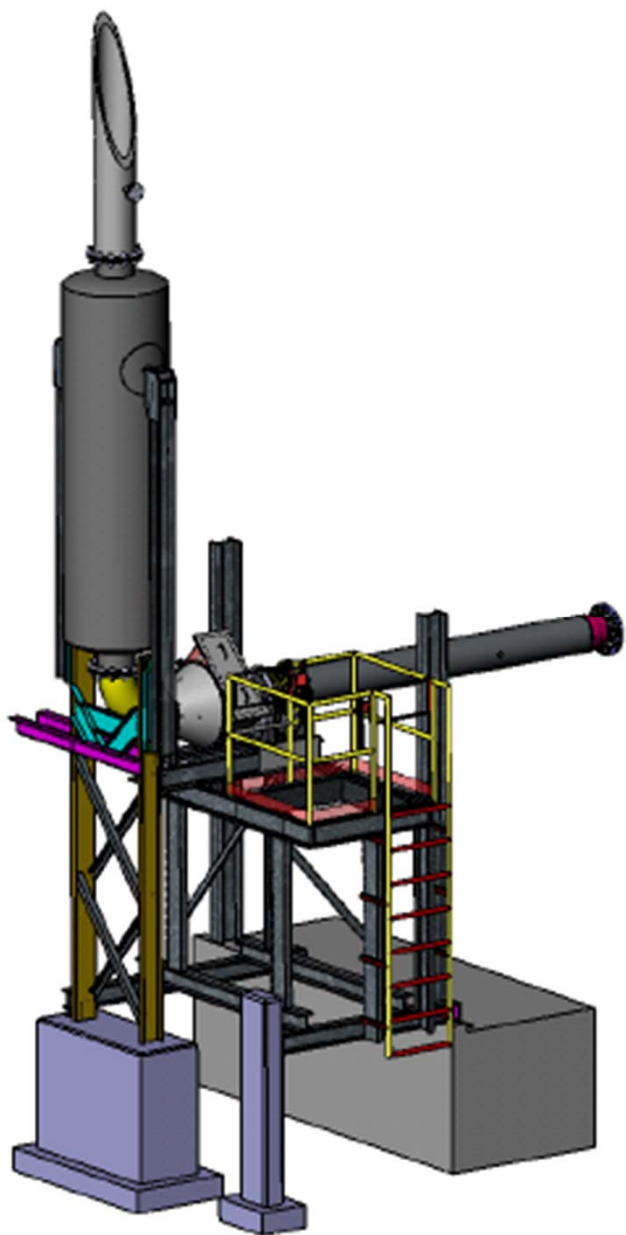
- ◆ Take the upfront time to prepare
  - Site Audits, budgets, understand the problem or regulation and it's full impact
- ◆ Time spent organizing will pay off with a successful project
  - Cost savings
  - Time savings
  - Commonality
  - Meeting the objective of the program (compliance, reliability, etc)

## *Ensuring success*

- ◆ All Stake holder involvement – Regulatory, Projects, & Station
- ◆ Good communication
- ◆ Collaboration on drawings and initial design
  - This can save time, frustration and changes in the field
- ◆ Detailed outline of scope and terminations
  - Who is responsible for specific termination points
- ◆ Mechanical health of unit

# *Customer Involvement*

- ◆ Designated Project Manager(s)
  - Allows for single point of contact
  - Consistency in decisions
- ◆ Designated site personal
  - Answering technical questions
  - Reviewing drawings
  - Supporting and understanding installation
- ◆ Ask questions and get clarity



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# *KVG-83 Catalyst System*



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MARKET

# MIDSTREAM

## Gas Transmission, Gas Storage, Fuel Gas

SUPPLY



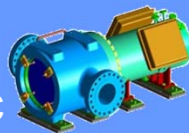
DEMAND

PRODUCTS



DATUM Pipeline

DATUM Model C



Separable Recip Compressor



PDI



Gas Turbine



Process Recip Compressor



Separator



Control Panels CNG



Services



## *Full Range of Services*

- ◆ Parts
- ◆ Emissions Standards Compliance – “A Program Approach”
- ◆ Automation & Controls
- ◆ Performance, Condition and Compliance Monitoring, & Testing
- ◆ Machinery Renewal and Zero Hour Equipment
- ◆ Mechanical and Foundation Services
- ◆ Service Agreements – Installation, Maintenance & Service
- ◆ Upgrade
- ◆ Revamps/Rerates
- ◆ Product Training

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