MIDSTREAM OPERATIONS

David Jost
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Natural Gas Value Chain

**NATURAL GAS GATHERING AND PROCESSING**
- Natural Gas Production
- Gathering & Compression
- Processing & Treatment

**MARKETING AND LOGISTICS**
- Residue Gas
- Utilities
- Industrial
- Residential
- Residue Gas & Raw NGL Mix Transportation

**MARKETING AND LOGISTICS**
- NGL Fractionation
- NGL Storage and Distribution
- Ethane
- Propane
- Butane
- Pentanes

**Marketing**
- Industrial
- Refineries
- Propane Distributors
Natural Gas Value Chain

Residential and Industrial
• Heating for Homes and Businesses
• Energy for local industries including Manufacturing, Food Production, and Agriculture

Power Generation
• Over 30% of the Nation’s electric power comes from Natural gas!

Products
• Plastics and Rubber
• Tires
• Electronics
• Automotive and Aerospace
• Gasoline, Detergents, and Fertilizer
• Many other household items!
Top Value: Safety

Operational Safety
• OSHA and DOT Regulations
• See Something, Say Something – Employee driven safety
• Detailed Facility Siting

Construction safety
• Dedicated safety inspectors
• Detailed Safe Work Planning and daily Safety Tailgate meetings
• Stop work authority

Facility Security
• Security checkpoints restrict entry to the facility control room
• Full perimeter security fence
• Security camera monitoring of the entire facility

Call Before You Dig
• One phone call can prevent injury and protect the environment
• Be an advocate for your neighborhood
New Pipe
U.S. Environmental Protection Agency

✓ Water Quality
  - SPCC – Spill Prevention, Control, and Countermeasure
  - SWPP – Storm Water Pollution Prevention Plan

✓ Air Quality / Air Emissions
  - Air Emissions Prevention
  - NSPS - New Source Performance Standards
  - MACT - Maximum Achievable Control Technology

✓ Waste
  - RCRA - Resource Conservation and Recovery Act
Colorado Department of Public Health and Environment

✓ Construction and Operating Air Permits
✓ Storm Water Permits
✓ Greenhouse Gas Emission Prevention
Colorado Oil & Gas Conservation Commission

✓ Spills & Remediation
**Environmental Compliance – General Activities**

**Engineering and Controls**
- Emissions control devices – combustors and flares
- Low emissions equipment – high efficiency burners, process vent recycle
- Daily environmental monitoring, inspections, data collection and review
- Leak detection and repair programs

**Reporting and Investigation**
- Self reporting known deviations from environmental requirements
- Startup, Shutdown, and Malfunction reporting
- Annual emissions reporting
- Supporting agency inspections
- Completing internal audits and implementing corrective actions
Neighborhood Engagement

- Regular Communication
- Open Houses
- Tours
- Kitchen Table Meetings
Neighborhood Engagement

Sounds Mitigation
- Major rotating equipment will be enclosed in insulated buildings to reduce sound impact

Light Mitigation
- Downcast LED Lighting
- Dark Skies - Lights off at night, except when operators are working on equipment
Lighting
Lighting
Construction Steps

**Phase 1**
Grading and Earth Work
The site is graded and prepared for construction

**Phase 2**
Foundation
Concrete foundation is poured

**Phase 3**
Steel Structure
Supports and pipe racks are installed

**Phase 4**
Installation of Equipment & Buildings
Equipment and vessels are installed

**Phase 5**
Piping and Welding
Pipe is installed and welded

**Phase 6**
Electric Wiring
Equipment is wired to electrical power
Grading and Earth Work
Foundation
Steel Structure
Steel Structure and Pipe Racks
Buildings and Pipe Rack
Construction: Slug Catcher

Slug Catcher V-950 awaiting Goldhofer. Near crane is RMS 600-ton, far is RMS 900-ton.
Maneuvering Goldhofer under V-950 for transload. Goldhofer has 28 independently-steerable axles for site maneuvering. (170 tons of counterweight plate on crane to right.)
Construction: Cooling Fans
Nearing the End of Construction
Nearing the End of Construction
Wall
Plant Control Room
Integrated Collaboration Center (ICC)
THANK YOU