



Adam Meyer Key Points – Direct Testimony, Rebuttal

September 2021



Pneumatics EF

Valor Memo (Direct), Pneumatics EF

Valor Memo

- Provides list of more up-to-date studies on emission factors from intermittent controllers
- Provides recommended emission factor of 3.5 scf/hr for intermittent controllers to be more in line with Colorado

Pneumatics Cost

Valor Memo (Direct), Pneumatics Cost Estimates

Valor Memo

- Selected areas of NMED/ERG cost analysis
 - Emission factor for intermittent changed to see impact
 - Conversion to grid powered IA Compressors (sites with electricity)
 - 5 HP, 15 HP, 30 HP, 60 HP (Same HP used by NMED/ERG)
 - Conversion to grid powered IA Compressors (sites without electricity)
 - 5 HP, 15 HP, 30 HP, 60 HP (Same HP used by NMED/ERG)
 - Additional costs for transformer addition, trenching, etc
 - Conversion to local powered IA Compressors (generator/solar)
 - Updated costs with solar/generator hybrid skid
 - Conversion to electric (solar only)
 - Cost of PLCs, electric controllers, etc
 - Potential safety

Valor Memo (Direct), Pneumatics Cost Estimates

Air compressors

- Standard horsepower (HP is not linear in cost)
- Buildings
- Structure/Civil
- Electrical panel
- Piping, tubing, valves/components
- Installation costs – crane time, personnel time, BOP
- Redundancy may be needed for larger facilities
 - IA skid is now single point failure
 - Failure results in facility shutdown
 - Emissions from well restart
 - Emission from tanks thermal/breathing
 - Look at reliability of grid



Valor Memo (Direct), Pneumatics Cost Estimates

Electric Actuated Facility

- “Fail safe” conditions
- Process needs – actuation time (ON time, OFF time)
- Electric level controllers, pressure controllers
- Programmable logic controllers (at least \$10,000)
- Battery backup
- Redundancy may be needed for larger facilities
 - Breakers, PLCs, etc are now single points of failure
 - Failure results in facility shutdown
 - Emissions from well restart
 - Emission from tanks thermal/breathing