

SERVICES



MULCARE
Pipeline Solutions



INTRODUCING MULCARE SERVICES

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For over 90 years, Mulcare Pipeline Solutions has proven to be a top supplier, warehousing needed products and delivering cutting edge solutions to natural gas utilities, transmission companies and contractors.

We recognize that providing the right product is only part of the equation. Workforces must be trained and equipment must be properly installed and routinely maintained. Sometimes in-house expertise must be supplemented by outside technicians to ensure the safest and most effective operating conditions continue.

For these reasons, Mulcare has partnered with Pipeline Equipment Resources Company, LLC to offer a comprehensive lineup of support services. These services are designed to assist you in achieving your project goals on time and within budget. Regional service centers are conveniently positioned to offer you local support. Their OQ qualified and fully insured service group stands at the ready to tackle your next requirement. If you have a need you don't see in our list, ask us about it. Chances are we can build a custom solution to meet your needs.

*All services performed by
Pipeline Equipment Resources Company, LLC*





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*"Your training
gave us the details
we really need
out in the field"*

Utility Technician



ODORIZATION SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Our odorization technicians have the qualifications necessary to understand your project goals and the expertise to help you reach them. The services offered below can be customized for your specific project based on scope and timeline.

NJEX Odorizer Installation

Technician provides and installs all tubing, valves and fittings required to make the connection of a new or replacement NJEX odorizer to a tank, pipeline and gas supply as required by code. Turnkey odorization systems available. **Choose our Swagelok® Orbital Weld tubing option to insure a leak free system.**

NJEX Odorizer System Startup

Technician provides hands-on start up programming, commissioning and testing of the NJEX unit as well as training on operation, maintenance and repair.

NJEX Odorization System Annual Maintenance

Technician rebuilds all major system components on-site and submits a service report extending your system warranty on the mechanical components serviced.

NJEX Odorization System Training

Sessions cover complete theory of operation, diagnostic review, troubleshooting and hands-on maintenance training. Each student will receive a course manual and certificate of completion.

DTEX Sniff Testing System Training

Sessions cover complete theory of operation, software use/reporting, federal, state and local regulations, hands-on field testing, personnel qualifications and sample point review. Each student will receive a course manual and certificate of completion.

Odorization Consulting

Our expert consultant can help you plan your next project, review your current odorization program and even review specific incident data to offer experiential testimony.

Odorizer & Cylinder Rentals for Pickling and Temporary Odorization

Technician delivers, installs and commissions a portable odorizer sized to meet your required flow conditions or new pipeline pickling requirements. Odorant storage cylinder with or without liquid odorant can be provided. Odorant transfer service from your existing tank also available.

Odorization Equipment, Tank & Building Remediation

Midland Resource Recovery (M.R.R.) will safely and securely remove your old mercaptan waste and wetted infrastructure. Technician will ensure compliance with all regulations for removal and transport.

Liquid Odorant Delivery & Transfer

M.R.R. odorant bulk delivery and transfer services available utilizing our bobtail truck and closed loop transfer system. Custom storage and delivery programs available.

Odorant Chemical Analysis

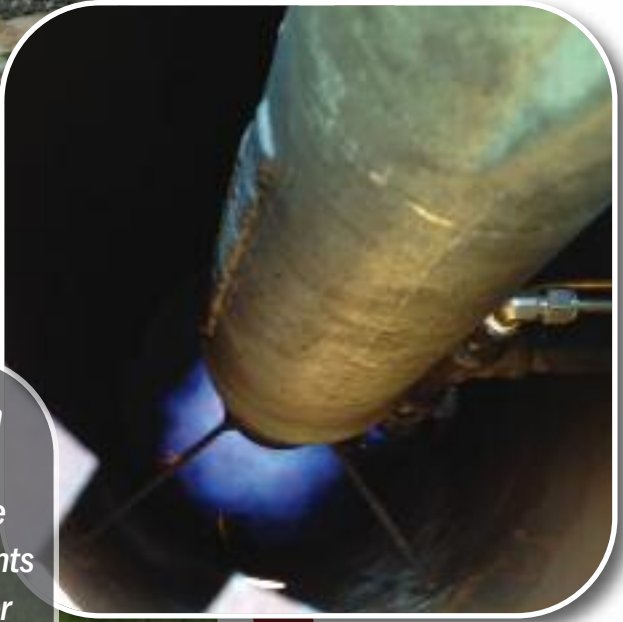
Pipeline gas bag samples are taken, lab tested and a professional report suitable for agency reporting is provided.



PERC QUALIFICATIONS

Fully insured • Operator qualified (OQ) with Veriforce & NGA • DOT registered/compliant • ISNetworld compliant • Safeland USA trained • OSHA compliant
Transportation Worker Identification Credentials (T.W.I.C.) (full background check) • Drug/alcohol testing through Midwest Toxicology & Pipeline Testing Consortium
Swagelok Orbital Welding certified • Factory authorized & certified to work on your specific equipment • Published experts in our field • Over 90 years natural gas experience

Contact your local Mulcare representative or call 973-335-4800 for a customized proposal to meet your requirements



*"Wow! Your evaluation
of our heaters really
exposed some overdue
maintenance requirements
and maybe even burner
upgrade needs."*

Utility Technician

LINE HEATER SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Heating pipeline gas prior to a large pressure cut is a critical and costly function. This heating process has high visibility in our industry's drive to increase safety and decrease harmful greenhouse gas emissions. Our programs can eliminate the concerns associated with general maintenance, the time constraints connected to troubleshooting and the training required to keep your workforce educated. We can evaluate your heater(s), make adjustments and repairs and recommend optimizing solutions that meet your budget and timing.

Offering the following services for your water bath heaters:

- System evaluation, analysis & solution reporting
- Burner operation optimization & upgrade analysis
- Combustion & emissions consulting
- Burner, fire tube, coil and stack inspection, maintenance & hydrostatic testing
- Glycol water sampling and testing with report
- Customizable preventative maintenance programs to fit your budget

Offering the following services for your Cold Weather Technologies Dry Line heaters:

- New system commissioning
- Service One complete system health checks
- Flame arrestor flash testing & safety verification
- Glycol water sampling and testing with report
- Application consulting & sizing
- System evaluation, upgrade and replacement analysis

Custom quotations are prepared based on a complete system and personnel review in order to provide the most accurate service for the unique needs of each system or population.



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*"Mulcare's ultrasonic
check metering service
proved invaluable in
determining the actual
output of our storage
wells this year"*

Storage Engineering Manager



MEASUREMENT SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Utilizing the latest measurement technologies, training techniques and field experienced professionals, we offer a full line of measurement services. Whether it's a comprehensive training class or field measurement service, we have the expertise. When you are experiencing measurement problems with existing equipment, we have your solution.

Ultrasonic Check Metering

A Siemens calibrated clamp-on ultrasonic flow meter provides a complete measurement picture for your specified application without the requirement to break existing piping. Any time interval for measurement can be chosen.

Options:

- Our Technician can install and monitor a meter and provide a complete report on flow, temperature, and pressure.
- Rent a fully outfitted meter to conduct your own testing. Weekly and monthly rental terms with training available.

Turbine Meter Test & Repair (offered by Sensus (formerly Rockwell))

Technician disassembles, cleans and inspects your Mark II or Auto-Adjust turbine meter. Damaged components will be replaced per the manufacturer recommendations and the reassembled meter will be calibrated as per AGA guidelines. A full calibration report is provided and the warranty is upgraded to match that of a new meter.

Turbine Meter Upgrade & Trade-In Program

Get a discount on the purchase of a new Sensus Auto-Adjust dual rotor turbine meter with the trade in of any Mark I, Mark II or competing turbine meter. Discounts are tiered and increase with the volume of trade in units.

Electronic Pressure & Temperature Recorder Calibration

Technician downloads and calibrates your instrument transducers on-site and changes batteries as necessary. Full service report provided.

Turbine Meter Training

Complete turbine meter training seminars tailor made to your specific needs. Topics include but are not limited to: theory & fundamentals, system design, installation/operation/maintenance, data interpretation and troubleshooting. An introduction to volume corrector and associated electronics also offered. Each student will receive a course manual and certificate of completion.

Measurement Consulting

Our expert consultant reviews your flow requirements and other operating parameters, suggests an appropriate metering solution and can assist with designing the appropriate installation and confirm your project timeline.



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"We don't have the manpower to keep up with our pilot rebuilds. Mulcare gave us just the help we needed to get this year's work done"

M&R Area Manager

REGULATION & FLOW CONTROL SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Proper pressure regulation and flow control requires a complete understanding of the many stages of gas delivery. Our service technicians specialize in sizing regulators, working with flow schematics and performing the required inspection, maintenance and repairs necessary to keep critical system pressures and flows stable for proper supply.

Annual Regulator Lockup Test Service

Technician will perform the manufacturer's recommended procedure for regulator lock up test and replacement of spare parts. Your system will be returned to service and a report showing full compliance with local agency required inspection is provided.

Regulator & Relief Valve Repair

Complete inspection, disassembly and rebuild of your regulator and/or pilot utilizing factory authorized procedures and O.E.M. replacement parts. Manufacturer's recommended pressure test of final assembly is completed.

Becker Valve Repair, Upgrade & Maintenance

Expert assistance for rebuilding and retrofitting any GE Becker ball valves, regulators, control valves and instrumentation/accessories. Services include:

- Field troubleshooting/consulting
- Installation and commissioning
- Valve and stem lubrication service
- Repair and reconditioning of the following components:
 - Valves: ball valve stem seals, actuator cylinder tube and piston seals
 - Instrumentation: pilots, pneumatic positioners, digital positioners
- Instrumentation package upgrade installation for old or obsolete systems
- Choose our Swagelok® Orbital Weld tubing option to insure a leak free system

Regulator & Relief Valve Training

GE Mooney, GE FlexFlo, or Sensus (formerly Rockwell) regulator theory of operation, application & specification review, troubleshooting and hands-on maintenance training provided. Each student will receive a course manual and certificate of completion.

Becker Valve Training

GE Becker Precision Instrument control valve theory of operation, application & specification review, troubleshooting and hands-on maintenance training. Specific valve configurations pertinent to your system can be used for training exercises. Each student will receive a course manual and certificate of completion.

Regulation & Flow Control Consulting

Our expert consultant reviews your minimum and maximum flow requirements, suggests appropriate regulation solutions, plans piping configurations and confirms your project timeline.



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*"Thanks again for the
plug valve training.
It was excellent!
We are ready to tackle an
aggressive maintenance
program now."*

Construction & Maintenance Mgr.



PLUG VALVE MAINTENANCE SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Iron & steel plug valves are part of every natural gas distribution system. They are recognized as reliable performers with a long life cycle as long as they are consistently lubricated and properly maintained. Reduced manpower and outdated or improper lubrication techniques have become challenges to maintaining this large population of valves. Our plug valve maintenance services offer the right expertise, the latest equipment and state-of-the-art lubrication techniques.

Iron & Steel Plug Valve Annual Maintenance Program

On-site technician lubricates and adjusts valve plugs, replaces faulty sealant fittings and stem packing, inspects gearing, sets stops and submits a service report. System-wide programs are available.

Flowserve Nordstrom (formerly Rockwell) Plug Valve Maintenance Training

Includes Nordstrom metal valve history overview, theory of plug valve operation, value of sealant injection & procedure, valve & gearing identification & troubleshooting techniques, in field application review (weather pending) and introduction to modern day tooling and equipment. Each student will receive a course manual and certificate of completion.

Plug Valve Consulting

Our expert consultant reviews your plug valve and gearing condition, suggests appropriate maintenance steps and repairs or replaces gearing.

Sealant Injection Equipment Rental

Rent a Flowserve Nordstrom 400D Handgun or Hype Gun Plus to take care of the short term needs you have for proper plug valve lubrication. Sealants are available.



QUALIFICATIONS

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*"On-Site calibration
kept our processors in
the field, not in transit,
saving us valuable
time and money"*

Utility Technician

ELECTROFUSION & BUTT FUSION SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Plastic piping systems have evolved since their introduction in the 1970's. Resin formulas, product standards and joining methods are continually changing. Mulcare and PERC are engaged with key joining equipment and PE product manufacturers to improve products, learn new training techniques and keep current on the calibration and repair/maintenance procedures.

Electrofusion Calibration Services



As an EF Technologies authorized service center we offer the one of a kind Auto-Cal Service One calibration service for your processor. We can come to you to calibrate your processor quickly so you lose no field time. We even do on-site level one repairs.

Rentals for Butt Fusion & Electrofusion Equipment

Our properly maintained and modern rental fleet stands at the ready to tackle your next project. We provide the necessary training with each rental.

Conventional Heat Fusion Training

Our OQ qualified technician provides half and full day classes on proper butt, saddle and socket fusion procedures based on current PPI standards. Each student will receive a course manual and certificate of completion.

Electrofusion Training

We provide half and full day classes on proper electrofusion joining for saddle tees, new pipe installation and repairs based on current PPI standards.

Fusion Equipment Repair Services

As a factory authorized service center we bring our expertise to your required repair cost-effectively. We use factory procedures to repair your butt fusion and electrofusion equipment using only O.E.M. parts.



QUALIFICATIONS

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"Our guys were just not getting to building the telemetry cabinets. Mulcare got our specs, gave us a great price to build 'em and knocked 'em out."

Area M&R Supervisor



FABRICATION SERVICES

All services performed by Pipeline Equipment Resources Company, LLC



Our light assembly and fabrication services are your solution for picking up overflow or tightening up the quality, timeline or cost of your everyday fabrication requirements. With our expertise in working with polyethylene pipe and fittings, electronic components, metal fabrication and mechanical assembly, we are uniquely positioned to meet your fabrication requirements.

Steel & Aluminum Fabrication

Individual fabrication customized to your specification or volume production of a predesigned unit. Choose our Swagelok® Orbital Weld tubing option to insure a leak free system.

Polyethylene Pipe, Valve & Fitting Fabrication

Special project configurations or repeat assemblies needed for everyday use.

Telemetry Cabinets & Light Assembly

Utilizing your approved components and design criteria or working with you on a new design.

Custom Meter Set Assemblies

Commercial, industrial and large custody transfer meter sets built to your specifications. Modular configurations built for volume applications.

Portable Odorizer Trailers

NJEX odorant injection equipment and work shop features built into customized heavy duty trailers.

Portable CNG Systems

Custom configured compressed natural gas systems for portable supplemental use.



QUALIFICATIONS

Fully insured • Operator qualified (OQ) with Verforce & NGA • OQ PE fusion technicians • DOT registered/compliant • ISNetworld compliant • Safeland USA trained • OSHA compliant Transportation Worker Identification Credentials (T.W.I.C.) (full background check) • Drug/alcohol testing through Midwest Toxicology & Pipeline Testing Consortium • Drawings available Swagelok Orbital Welding certified • Factory authorized & certified to work on your specific equipment • Published experts in our field • Over 90 years natural gas experience

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OUR EXPERTS, YOUR SOLUTION

Mulcare stands ready to match our expertise with your needs. If you require a solution you don't see here, just ask us to consider it. We realize the natural gas industry is constantly evolving. We continue to adopt superior technology, enhance personnel qualifications and open more local service centers to meet this challenge.

With tight budgets and even tighter timelines, Mulcare is your service solution. Call us today!



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Mulcare Pipeline Solutions. Since 1923, Mulcare has grown with the natural gas industry by delivering cutting edge equipment and services that consistently surpass expectations. We are focused and well-versed on the modern concerns of transmission and distribution companies, municipalities and contractors alike. Whether you require the industry's latest and most advanced products, on-site experts, money-saving solutions or all of the above, Mulcare can meet your needs.

Our Objective. We are committed to creating rewarding partnerships with our customers and principal suppliers. These relationships have yielded the industry's leading offering of products, equipment, tools and expertise: all the things necessary to compete in today's dynamic natural gas industry. We can lower your costs and design solutions for the installation, operation and maintenance of natural gas infrastructure.

Our Strengths. Industry experts focused in these areas:

- Installation, Start-up, Maintenance & Repair Programs
- Hands-on, On-site & Classroom Training
- Commercial, Industrial & Residential Metering
- Electronic Pressure, Temperature & Flow Correction
- Commercial/Residential AMI/AMR
- Flow Control & Relief Valves
- Pressure Reducing & Back Pressure Regulators
- Gate Station & Instrument Heaters
- Odorant, Injection & Detection Equipment
- Polyethylene Pipe, Valves, Valve Boxes & Fittings
- Conventional Heat Fusion & Electrofusion
- Plastic & Steel Pipe Tools
- Anti-Static Protection
- Underground Marking & Locating Systems

Your Turn. Contact us today. Let us demonstrate how 90 years of experience can help you meet your challenges head-on and reach your long-term goals: on time, on budget and ahead of the curve.



**Innovative Products & Services
for Today's Natural Gas Industry**

Pipeline Equipment Resources Company, LLC

PERC's over 90 years of combined Natural Gas experience is focused on providing a comprehensive lineup of support services for Mulcare Pipeline Solutions in the Northeast U.S.

Field Services.

Installation, start up, efficiency analysis, maintenance and repair of Natural Gas infrastructure.

Fabrication

Fabricated solutions utilizing polyethylene, steel and aluminum materials. Light assembly of OEM electronic components.

Products

Thoughtfully designed products that meet the unique requirements of our Natural Gas industry.

- Statikil PE – Topical anti-stat for PE pipe
- Bar Puller – Leak probe bar pulling tool
- Pressure Logger – Electronic pressure data recorder/reporter
- Instrumentation Bracket – Pipeline mounted instrument holder
- Odorant Flares – Flares for all volume of flare-off



Pipeline Equipment Resources Company, LLC

Natural Gas Expertise in Motion...

For a Distributor in your area, call

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www.pipelinresources.us.com

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