



JUNE 12TH 2018

PGS Gas Training Center – Gas WorX

(FPSC Presentation - 2018 NATURAL GAS PIPELINE SAFETY SEMINAR)

Program & Facility Overview



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PGS Gas WorX – Targeted to be a first in class training complex, in the Southeast.

Our Natural gas training center and simulated gas village, will provide wide-ranging natural gas utility operations and technical training to all technical field and company employees. This training complex and it's programs will be completely focused on establishing a fully comprehensive operational and technical training experience, in a virtual natural gas distribution system setting.

Our training programs and complex has be tailored to include all the key elements of natural gas utility operations: Including safety processes, emergency response requirements, new construction and all aspects of the related maintenance activities regularly performed across our natural gas systems statewide.

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The class room, and laboratory settings, along with it's mock natural gas neighborhood will offer each participant a hands-on, real life work setting and fully functional operating scenario-based training experience.

This facility has been completely designed to replicate real-world conditions with a fully functioning underground natural gas system, with all types of gas piping materials, running on both air and natural gas, each system links to fully functional Gate and Regulator Stations, underground distribution piping and residential, commercial and Industrial meters, and a variety of gas appliances inside simulated homes on positioned streets and avenues within the gas villages training complex.

The system also includes simulated leak training areas, line location training, valve operations, pipe repair, emergency response and fully certified and NACE approved cathodic protection system, within the training complex.

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Gas WorX Village (Simulated Residential & Commercial Neighborhood Setting)

- Four Residential Natural Gas Customer Cottages, Gas Service Lines with Service Valve & Excess Flow Valves, individual Gas Risers, Meter & Regulators, Various Home Appliances.
- One Commercial Natural Gas Customer Cottage, Gas Service Line with Service Valve & Excess Flow Valves, Gas Riser, Meter & Regulators, Various Commercial Equipment.

Meter Reading Training & Performance Testing

Performance of Turn-On and Turn-Off Procedures, Performance Testing

Interior Piping Leak Investigations and Testing

Appliance Operation Training and Testing

Appliance Repair Training (Diagnosis and or Screw Driver Repair Procedures)

Red Tagging Procedures and processes. (Isolation & Isolation Valves)

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Distribution Operations:

Approx. 5,000 feet of simulated underground distribution system pipe layout

- 1,500 feet of Underground Polyethylene Pipe (Neighborhood system)
- 1,500 feet of Underground Steel pipe (Neighborhood system)
- 1,500 feet of Cathodically Protected Pipe (Anodic & Impressed systems)
- Associated Control Valves for Mains and Service lines
- Associated Insulators and Pipe Related Fittings

Associated Pipeline Locate Markers (Above and Below Ground)

Metering & Regulator Assemblies:

- Traditional Residential Meter & Regulator Sets
- Traditional Commercial Meter & Regulator Sets
- Traditional Large Commercial Meter & Regulator Sets
- Various Meter Sets in Live Gas Use Setting

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Safety Training:

- PGS/Emera Safety Culture & Team Member Requirements
- Overview of Safety Program and Procedures
- PPE Equipment Overview & Use Related Requirements
- Smith System Orientation & Training Program
- Safety Circle Orientation & Training Program
- Specific and General Safety Performance Requirements & 24/7 Expectations

Cathodic Protection:

NACE based Infrastructure & Training Program

Two Rectifier based pipe systems

Isolation and Test Point Monitoring

Anode Based Pipe system

Test points Identification

Meter Set & Associated Pipe, Corrosion Test Rack

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Utility Locate Training:

- Steel Pipe locating
- Polyethylene Pipe locating
- CI/BS Pipe Locating
- Effective Use for of Pipeline Markers, Valves and Test Stations for Locating
- Proper Marking and Flagging Techniques and Practices

Leak Survey Training (Leak Survey Training, Leak Tracing and Leak Investigations:

- Remote Methane Leak Detection Units
- Flame Ionization Detector Units
- Combustible Gas Indicator
- Leak Detectors (Sensit Gold G2, Gas-Trac, etc.)

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Valve Operations & Training:

- Valve Types & Training
- Valve Location Determination
- Valve Marking Procedures
- Valve Identification Procedures & Requirements
- Valve Operation & Use Procedures
- Valve Box and Valve Maintenance Procedures

Four (4) Simulated Work Areas for Exposed Pipe (Trench Box's):

- Steel Pipe Work Areas (simulated work conditions)
- Polyethylene Pipe Work Areas (simulated work conditions)
- Pipe Observations & Repair, Leak Clamps, Material Transitions/Dresser Fittings,
- Pipe Cleaning Coating, Recoating, Assessment simulations
- Anode Installation, Cad Welds, Exposed Pipe Observations & Reporting

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Gate Station, District Regulator & Basic Pressure Control (Test & Live Operating Setting):

- Various System Designs & Equipment Use
- Equipment Inspection Process & Working Requirements
- Operational Maintenance Process & Working Requirements
- Operating and Control Procedures and Practices



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