Liquefied Natural Gas (LNG)

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PECO Specifics

✓ Combination Utility – Electric & Gas
  • Electric in Philadelphia & Surrounding Suburbs
  • Gas in Philadelphia Suburbs
    – Bucks, Chester, Delaware, Montgomery, & Lancaster Counties
✓ Gas currently approximately 518,000 customers.
✓ Approximately 6700 miles of gas main
PECO LNG Facility

- LNG Plant commissioned in 1972
- Located in West Conshohocken
- LNG tank is 1.2 BCF (15 Million Gallons LNG)
- Designed for peak shaving operations
- Control room on site – manned 24 X 7
- Feeds - Transco & TETCO
Located in West Conshohocken
PECO LNG Facility - Liquefaction

- Liquefaction – Turbo expander operation driven by gas combustion turbine – capable of 6 million SCF/Day
- Gas supplied from either TETCO or TRANSCO – gate stations on site.
- Typical Liquefaction timeframe – April – October depending upon how much used
- Goal is to have LNG tank full for internal winter readiness date of November 1st.
PECO LNG Facility - Vaporization

- 5 LNG pumps (built-in redundancy)
- 5 individual vaporizers in water bath heat exchanger (built-in redundancy)
- Capable of vaporizing 312 million SCF/Day
- Vaporization operations coordinated with Gas Control
- Increase normal staffing when vaporization in progress.
LNG Control Room
Security – Cameras & Monitors
Security - Fencing
Fixed Fire Protection
Cleansing Cycles
Combustion Turbine Building
Vaporizers
LNG Fill station
Portable Vaporizer
Pump Skip
Pump Skid
Pump Skip Connected to Vaporizer
Vaporized LNG into Distribution System
Monitoring Systems
Questions