

Gas Infrastructure and Safety Policy Session

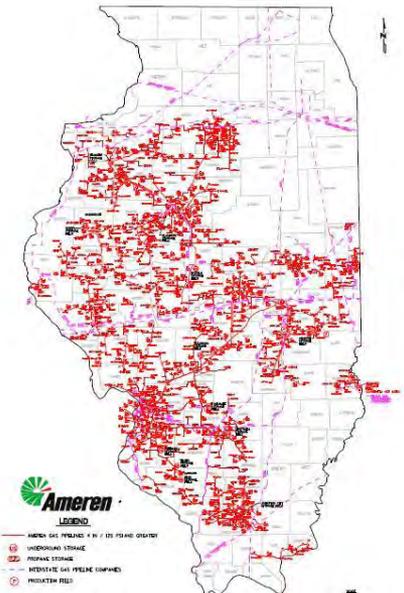
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Ameren Illinois Natural Gas Operations

Natural Gas System Overview

- 816,000 natural gas customers in 1,200 communities
- 18,400 miles of gas transmission and distribution pipelines
 - 1,250 miles gas transmission
 - 17,150 miles gas distribution
 - 7,900 miles of plastic, and 10,500 miles of steel pipeline
 - Cast iron replacement was completed approximately 15 years ago
- 12 underground gas storage fields with 24 Bcf of working capacity



Modernization Action Plan

Mechanically Coupled Steel Main and Service Replacement Program

- Aging components of the distribution system which are more prone to leakage
- Nine year program to replace approximately 350 miles of main and associated service lines
- Replaced 160 miles from 2015 – 2018 with 35 – 40 miles per year planned through 2023
- Total planned investment of \$210 million
- Replacement program is included within the Qualifying Infrastructure Plant (QIP) Rider



Modernization Action Plan

Transmission Main Replacement Program

- Aging components of the transmission system which are more prone to failure or leakage
- Replacement is focused on areas of higher population density designated in pipeline safety regulations as Class 3 and High Consequence Areas (HCA's)
- Nine year program to replace approximately 190 miles of main
- Replaced over 60 miles from 2015 – 2018 with 25 - 30 miles per year planned through 2023
- Total planned investment of \$760 million
- Also included within the Qualifying Infrastructure Plant (QIP) Rider



Modernization Action Plan

Opportunities and Challenges Associated with Infrastructure Replacement

- QIP is enabling replacement of aging infrastructure to strengthen the safety and reliability of the natural gas delivery system.
- Addressing new/pending federal pipeline safety regulations for transmission
- Transmission replacement projects have unique challenges
 - Easements very old (1930's) and require updating or may need to re-route and acquire new right-of way
 - Re-routing can require filing of a Certificate of Public Convenience and Necessity (CPCN) with ICC
 - Long planning horizon of 3 years or longer from project scoping to project completion



Modernization Action Plan

Opportunities and Challenges Associated with Infrastructure Replacement

- Ameren Illinois recently received a CPCN for a transmission replacement project near Pekin and a CPCN pending for a project near Hillsboro
- Railroad permits



2017 Decatur Lake Crossing

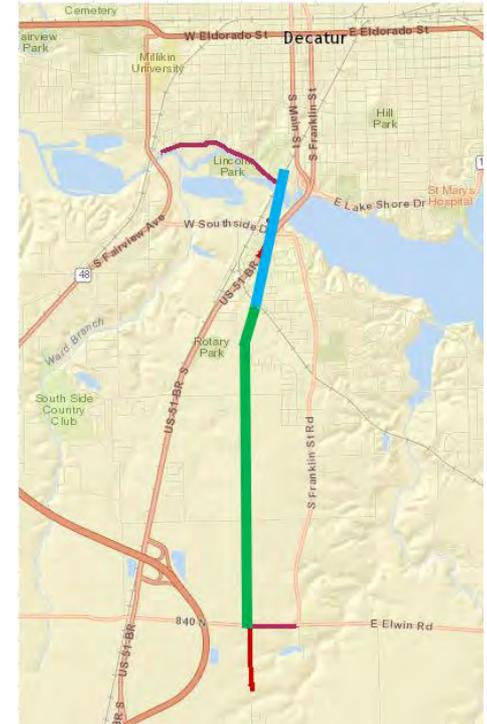
Install 2600' 16" steel under Lake Decatur using directional boring

2 months to bore new path under Lake and pull back pipe new pipe



Replace 1930's vintage 10" pipe

Elwin to River Station - Phase 1



Peoria 200 Line Replacement



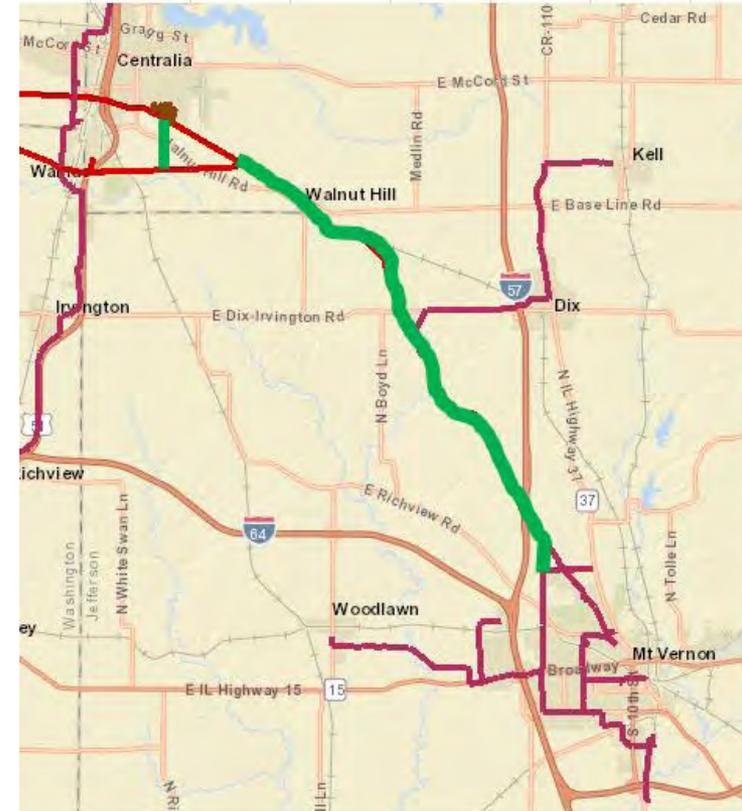
Replace 1955 vintage
16" steel

Install 8.4 Miles of 16"
steel

Replace 1958 vintage 6" steel

Install 13.8 Miles of 10" steel &
1.5 Miles of 8" steel

Centralia to Mt. Vernon Replacement



6" and 10" Gas Main Replacement from Troy to Glen Carbon

New valve assembly



Real Time Radiography tool (RTR)

Used for approximately 2,000 welds on Mt. Vernon replacement project

Centralia to Mt. Vernon 13 mile Right-of Way Spread



Centralia to Mt. Vernon



Regulator Station Site





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