Nicor Gas

Gas Infrastructure and Safety Forum

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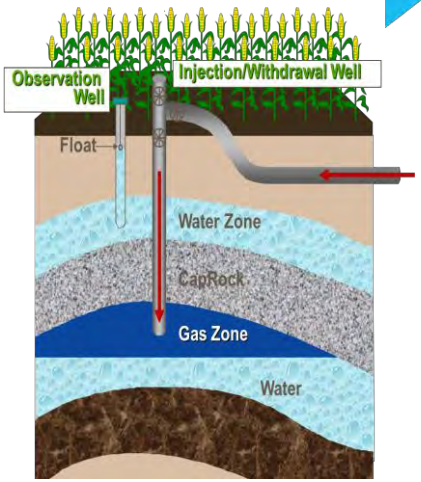
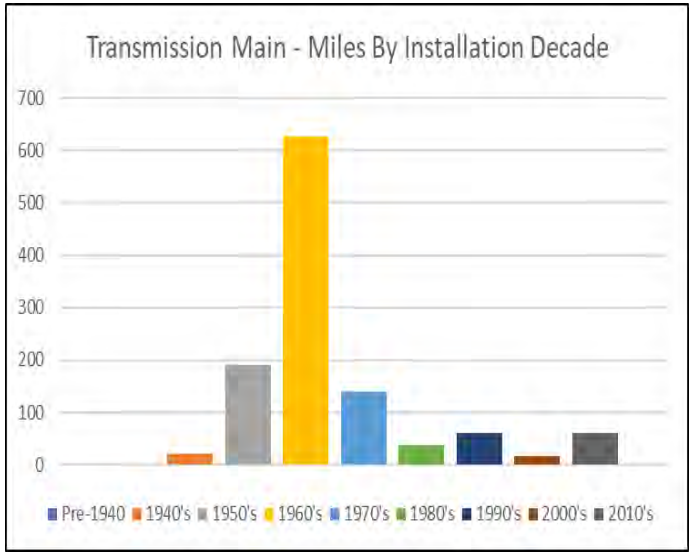
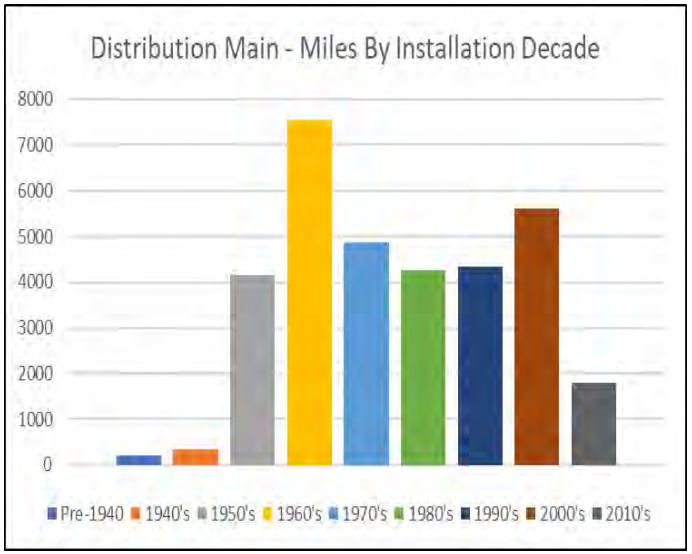
Current Gas Pipeline System Design Attributes

- Nicor's Gas System includes:
  - 8 Gas Aquifer Storage Fields
    - 376 Injection/Withdrawal Wells
  - 95 Interstate Tap Stations
  - 2208 District Regulator Stations
  - 1,154* miles of Transmission Pipeline
  - 33,149* miles of Distribution Main
  - 2,025,185* Gas Services
  - 2,392,385 Customer Meters including a growing n







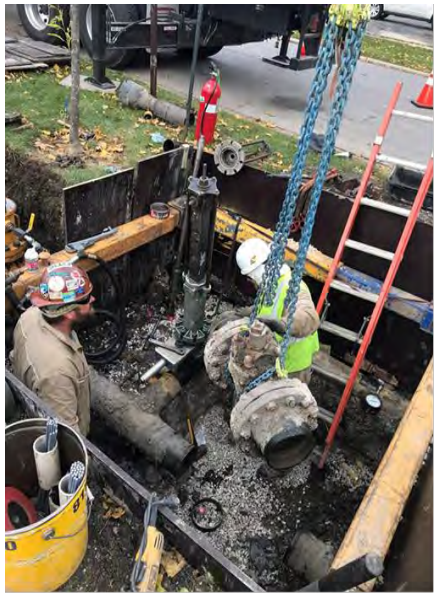
* From 2017 DOT Report

Current Modernization Activities

As part of an approved QIP (Investing in Illinois), Nicor Gas has spent the last 4 years significantly modernizing its system including retiring approximately:

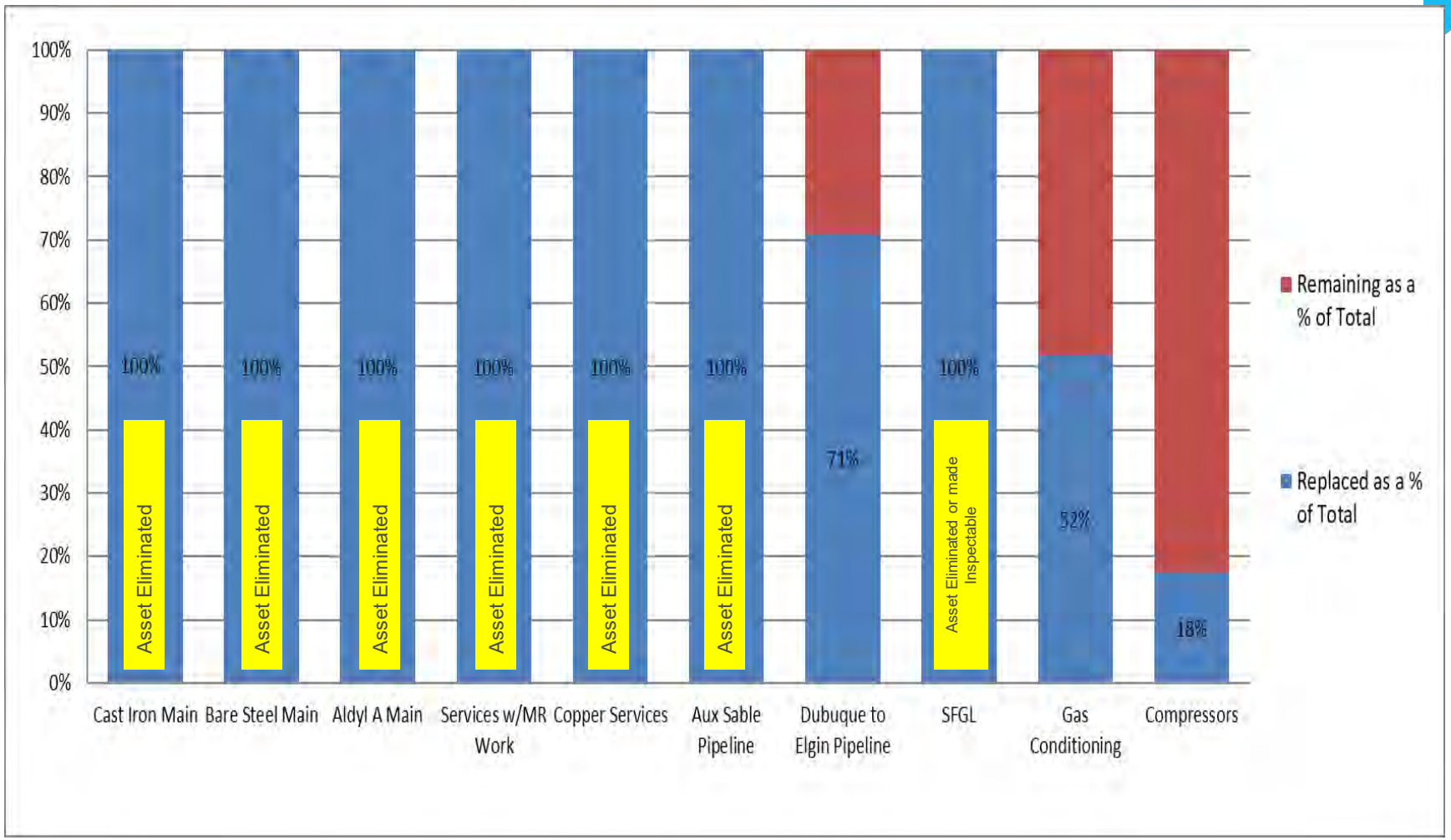
- 207 miles of cast iron main – Final section retired 10/30/18
- 130 miles of bare steel main
- 22 miles of vintage plastic main
- 30 miles of storage field gathering lines (SFGL)
- 40 miles of transmission pipeline
- 36,500 copper services

As well as associated services, regulator stations, system compressors, heaters, and gas dehydrating equipment



Last section of cast iron retirement work

Investing in Illinois Program 5-year Plan



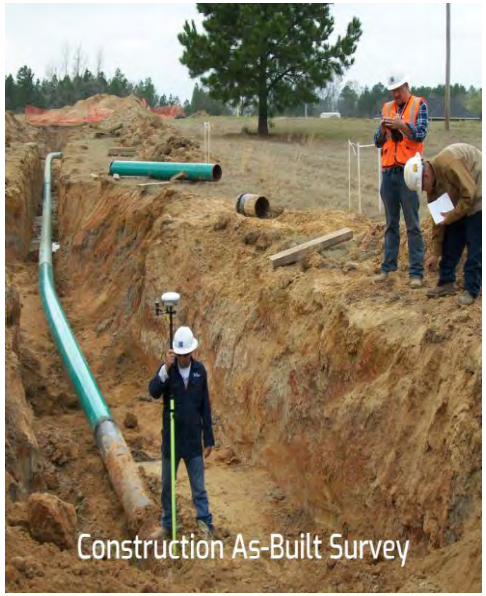
These projections are based on our current DIMP and TIMP analyses. Pending Federal regulations concerning expansion of Transmission Integrity requirements, the validation of Maximum Allowable Operating Pressures (MAOP) and Underground Storage Integrity may alter prioritizations and/or increase our needs to accelerate additional improvements.

Benefits of the Investing In Illinois Program (QIP)

- Allows the company to design more comprehensively
- Allows contractors to identify and maintain adequate resources
- Lowers construct costs by reducing risks for the contractors
- In turn lowers the burden on ratepayers
- Provides a platform to develop diverse suppliers
- Better coordination with municipalities and their projects
- Provides economic boost and jobs

Challenges with Maintaining, Repairing, and Replacing Aging Infrastructure

- Surrounding utilities in close proximity to existing pipe
- Customer and community interruptions
- Non-standard pipe, fittings and pipe sizes making repairs more difficult
- Quality and changing requirements of historical records
  - Completeness of records – wall thickness, grade, pressure test
- Availability of space on right of ways or difficulty obtaining easements
- Maintaining adequate construction resources
- Timeliness and growing expectations of permitting agencies
- Prior impacts of construction activities in the surrounding area



Upcoming Projects

- Bare Steel Main Replacements & Associated Services
- Copper Service Replacements
- Meter Moves from Inside to Outside
- Storage Field Gathering Lines Replacements
- Elmhurst Phase 3 and 4 – 1.8 miles of 20” transmission pipeline (1950’s)
- Skokie – 2.5 miles of 20” transmission pipeline (1944)
- Dubuque Phase 3 - 10 miles of 22” transmission pipeline (1959)

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