#### **Post MAOP Reconfirmation Activities**

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### **Anticipated Code Updates**



## 49 CFR Part 192 - Transportation of Natural and Other Gas by Pipeline Minimum Federal Safety Standards

§ 192.517 Records.

manufacturing rating, or the pressure rating. For valves with pipe weld ends, records must document the valve

the total length must contain 10 percent of the total number of required excavations, e.g. a 200 mile population would require 15 excavations for each 20 miles. For each population defined

# § 192.607 Verification of Pipeline Material

# § 192.624 Maximum allowable operating pressure verification

d. or 192.7

■ 30. Section 192.607 is added to read as follows:

§ 192.607 Verification of pipeline material: Onshore steel transmission pipelines.

(a) Applicable locations. Each operator must follow the requirements

destructive of a sees, examinations, and assessments for line pipe at all above ground locations.

(2) Develop and implement procedures for conducting destructive tests, examinations, and assessments for buried line pipe at all excavations corrosion using ultrasonic inspection, magnetic particle, liquid penetrant, or other appropriate non-destructive examination techniques. Determination of material property values must





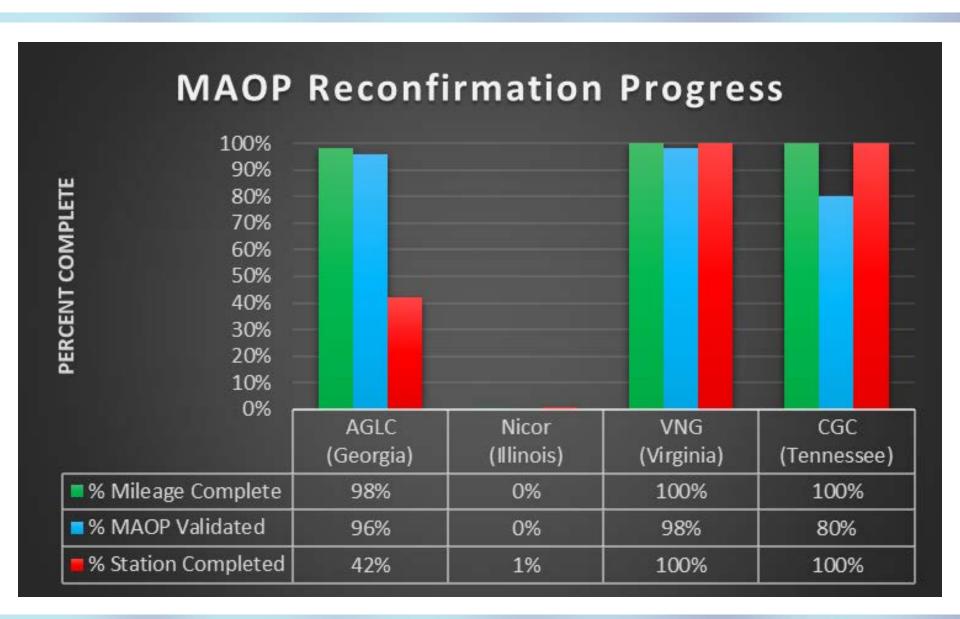
### **Southern Company Info**







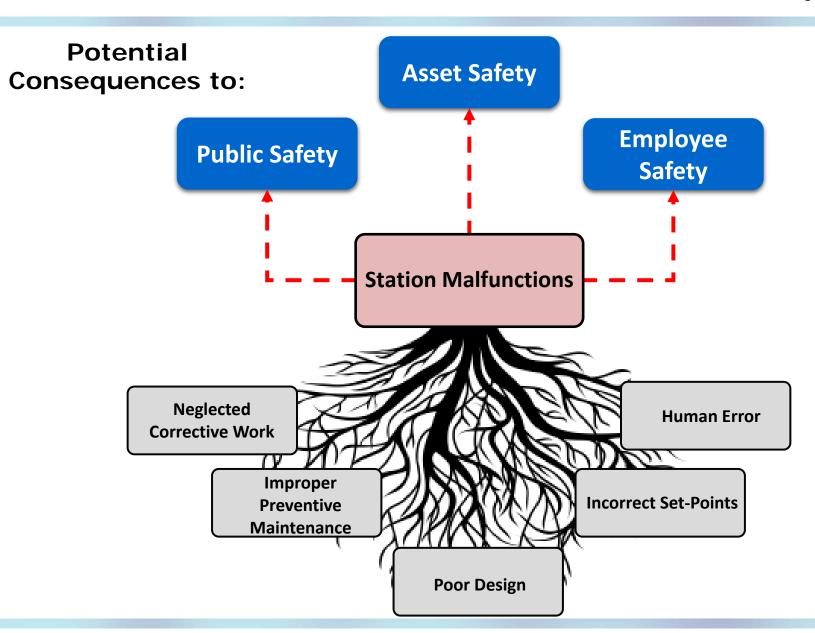
# **Our MAOP Program Today**







# **Station Upsets**

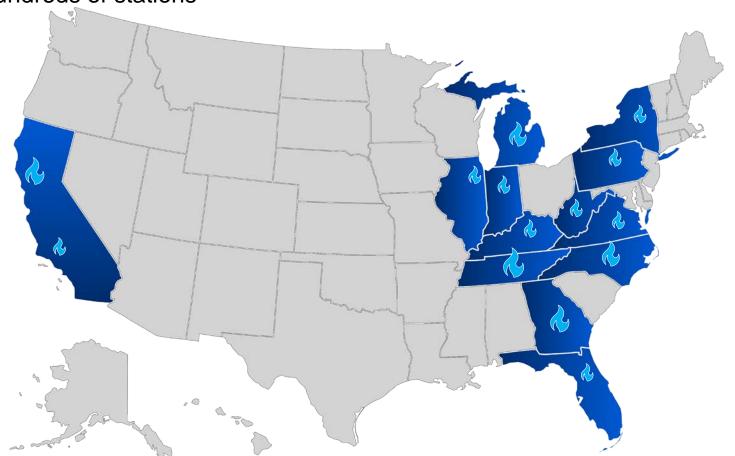






# Representative Experience: MAOP Reconfirmation

- GTS has extensive experience in MAOP Reconfirmation for pipelines and stations
- Performed MAOP Reconfirmation for thousands of miles of pipelines and hundreds of stations







# **Pipeline: MAOP Reconfirmation**













#### PFL / SFL Build



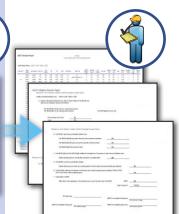
# Engineering Analysis



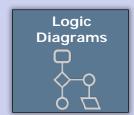
Review

• Issues Analysis

# MAOP Reconfirmation



# Post MAOP Reconfirmation





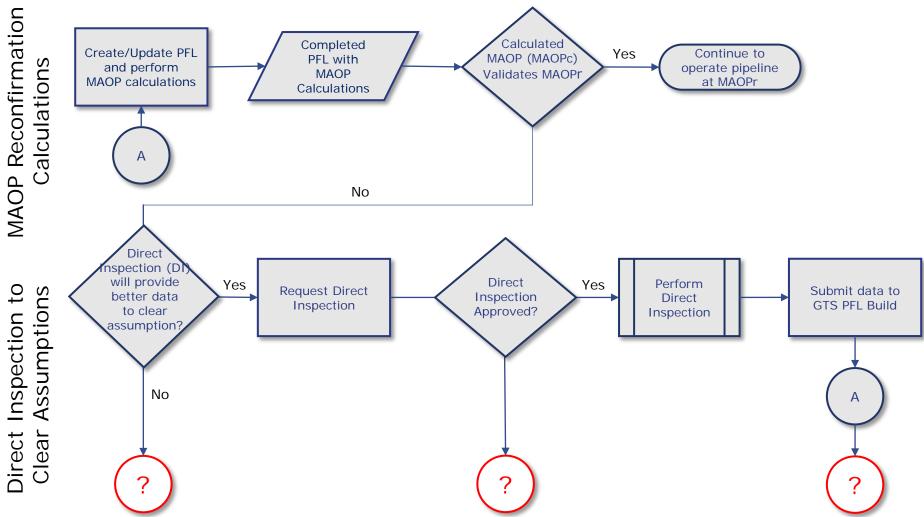






# **Logic Diagrams**

### Establish logic diagrams to efficiently resolve gaps:







# **Gaps from Issues Analysis**



Data and knowledge gaps are Records issues



Missing, conflicting, poor quality, unknown specifications



Application of conservative assumptions



Does not satisfy MAOP



Must have T, V & C Records







### **Issues Prioritization and Recommendations**



Identify, Categorize and Prioritize Gaps



Types of issues: Records Issue and MAOP <u>Issue</u>



Established Client-determined Prioritization



Recommendations provided for identified gaps



Remedial actions must be cost effective, time-based, realistic







### **Cost Estimates**









**Analogous** 

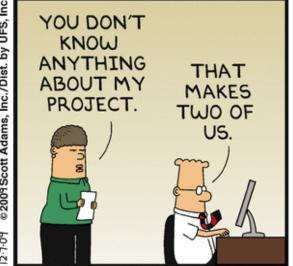
**Parametric** 

Cost Benefit Analysis

Program Budgeting





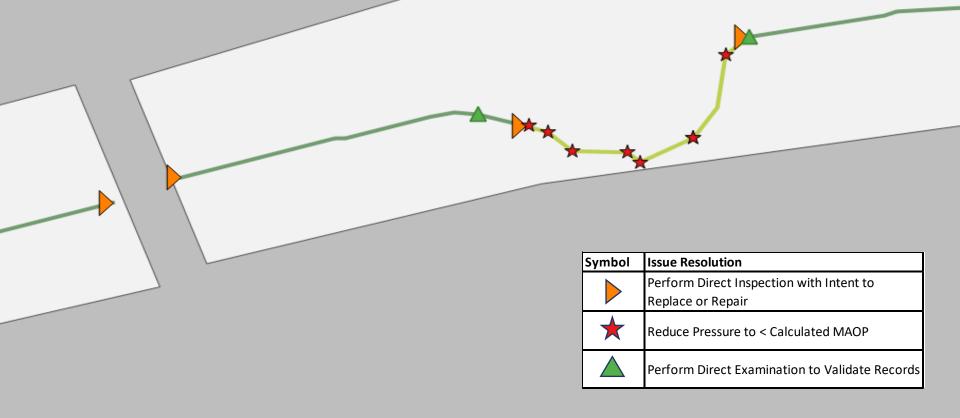






### **Combine Work**

- Thoughtful project scoping
- Department communication and transparency
- Continuous planning with stakeholders







# **Capture Data into System of Record**



As-builts have to be feature based



Method for loading into GIS



Protocols to continuously check



Timely updates to the System of Record







### **Path Forward**



Development of a Remediation plan:

- (1) Prioritization
- 2) Filling Data Gaps
- Goal of zero conservative assumptions, zero unknowns





### **Lessons Learned**



**Setting Foundation** 



Process, process!



Continuous Improvement



Set Realistic Expectations





### **Questions?**

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