Natural Gas Transmission Mega Rule Assessment: Know Where You Stand



October 8, 2020



Agenda

Introductions Timeline / Background 03 **Review of Changes Review of Assessment Matrix GTS Assessment Method Downstream Operator Actions**



GTS Overview

• Founded in 1998 under the name of Blue Flame

Incorporated in the State of California in 2001

Office locations:

Atlanta, GA

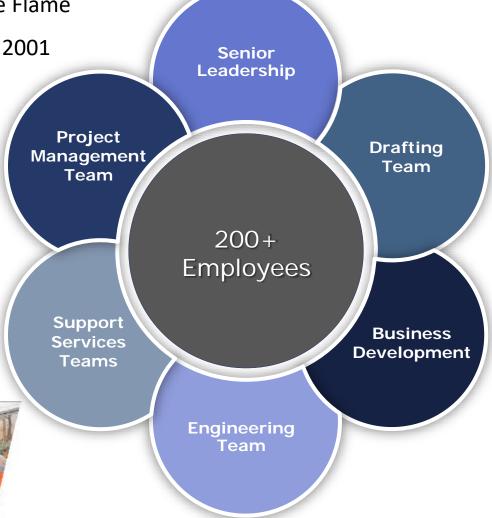
Walnut Creek, CA

Los Angeles, CA

 Serve clients nationally – most recently CA, GA, FL, VA, IL, AZ, TN, NC, KY, CO, TX, MI, IN, PA, WV, NY

Phoenix, AZ
Project

Chico, CA









GTS Presentation Team



Tyler Enos
Business Area Lead Transmission Pipeline

Tyler is experienced in the areas of pipeline replacement engineering, ILI retrofitting, valve automation, strength test design, and station design. Tyler, is a licensed Engineer in the State of California and has over seven (7) years of engineering design experience on a wide range of projects. Tyler has managed a team of engineers through the design and engineering of over 200 miles of strength tests. He also managed a team of engineers through the completion of the Pipeline Safety Enhancement Plan updated work paper filing.



Jessica Sheldon
Business Area Lead –
Asset Knowledge

Jessica has over 9 years of experience in the Asset Knowledge realm. From her experience building features lists to leading teams of over 70 engineers on all aspects of Asset Knowledge. Jessica works with clients to develop, establish, and maintain MAOP reconfirmation programs via establishment of asset and work management systems as well as creation of processes and procedures. Jessica has experience setting client's up for full compliance with all code requirements and creating solutions as part of the operator's 15-year plan.



Background

Regulatory Change History



Parts 191 & 192

- 1968: Natural Gas Pipeline Safety Act
- 1970: 49CFR, Part 192
- 1988: 2009
 - Drug & Alcohol Testing
 - Excess Flow Valves
 - One-call Systems
 - o TIMP
 - o DIMP
- 2010: San Bruno Incident
- 2011: Pipeline Safety, Regulatory Certainty, and Job Creation Act
- 2019: Mega Rule, Part 1



PHMSA Mega Rule – 3 Parts Summary

Issued 10/1/19

Part 1

- MAOP Determination & Reconfirmation
- Material Verification
- Engineering Critical Assessment (ECA)
- Definition of TVC
- Records management
- Identification & assessment of MCA
- Analysis of Predicted
 Failure Pressure
- Assessment intervals & methods
- Revisions to policies, procedures, plans

Anticipated

Part 2

- Updated & new repair criteria
- Inspection of pipelines following extreme weather events
- Updates to corrosion control requirements
- Risk assessment requirements
- Management of change (MOC)
- Definition of Transmission
 Line & Distribution Center

Anticipated

Part 3

 New requirements for gas gathering pipelines



49CFR Mega Rule Part 1

Part 1: Issued October 1, 2019

Mega Rule Part 1: Addressed Congressional Mandates

 MAOP Reconfirmation, Expansion of Assessment Requirements, and Other Related Amendments

Focused Areas:

- MAOP Reconfirmation & Material Verification
- Known as the 15-Year Plan

Significant Rule Part #1 Timeline				
Rule Effective Date:	July 1, 2020			
MAOP Reconfirmation & MV Plan:	July 1, 2021			
50% of MAOP Reconfirmation:	July 3, 2028			
100% MAOP Reconfirmation:	July 2, 2035			

When is the Rule Effective?

PHMSA issued <u>new enforcement date</u> for the Mega Rule Part I in response to the President's declaration of a National Emergency due to COVID-19. July 1, 2020 is still when the rule is effective.

PHMSA Notice of Stay of Enforcement

Issued on April 22, 2020

- Temporarily suspending enforcement of the new Part 192 requirements
- Does NOT apply to Part 191 reporting requirements & subsequent compliance deadlines for developing additional procedures or implementing other requirements

Part 1 New Enforcement Date:

December 31, 2020





Rulemaking 1 - October 1, 2019

Part 191

2 changes – regarding Reporting of MAOP Exceedances

Part 192

30 changes – from definitions to assessment intervals

Some Major Impacts

1

Reporting Related

§191.23, §191.25-MAOP Exceedance Reporting §192.18-Alternative Notices for Compliance – 6 total changes Recordkeeping

§192.5, §192.67, §192.127, §192.205, §192.517 Class Location, Design Calcs, Materials, Welding – 11 total changes 3

MAOP Related

§192.624, §192.619 §192.607- MAOP Reconfirmation, Material Verification, Pressure Testing – 5 total changes 4

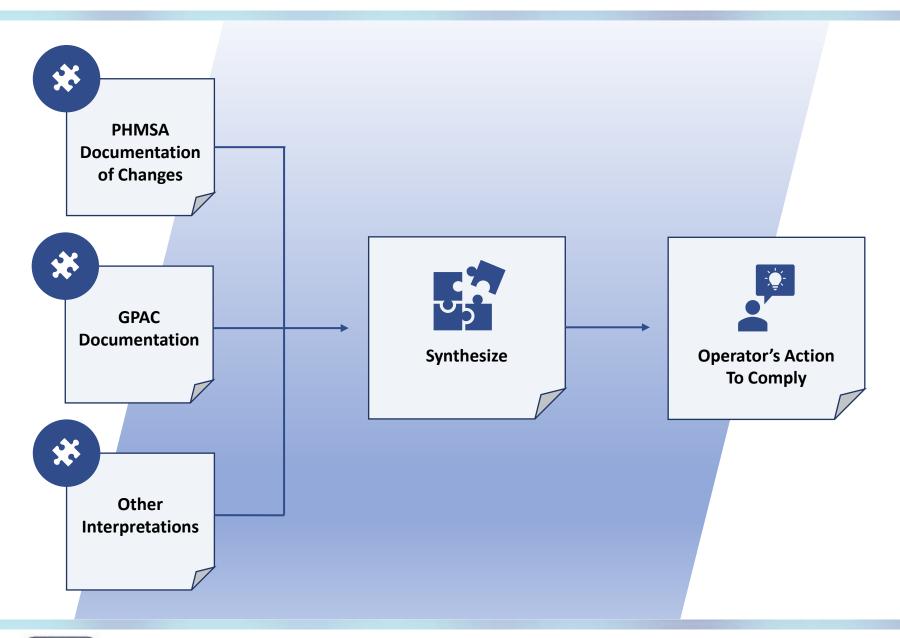
Assessment Related

§192.710: Class 3, 4 & MCAs §192.917, §192.923: Threat Evaluation and Assessment Methods – 15 total changes



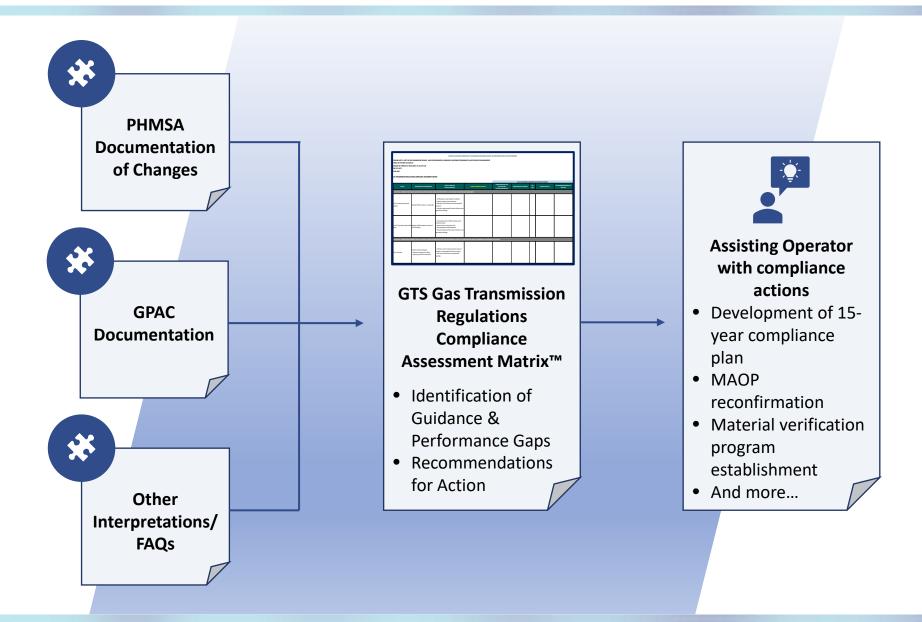
GTS Method & Tool: Compliance Assessment Matrix

Required Actions





Gap Analysis





GTS Assessment Matrix – Snapshot

PIPELINE SAFETY: SAFETY OF GAS TRANSMISSION PIPELINES: MAOP RECONFIRMATION, EXPANSION OF ASSESSMENT REQUIREMENTS, AND OTHER RELATED AMENDMENTS

PHMSA 49 CFR PARTS 191 AND 192

[DOCKET NO. PHMSA-2011-0023; AMDT. 191-26; 192-125]

RIN 2137-AE72

FINAL RULE

GTS TRANSMISSION REGULATIONS COMPLIANCE ASSESSMENT MATRIX

				RESULT OF ASSESSMENT, PROGRAM REVIEW, PERSONNEL INTERVIEWS				
SECTION	BRIEF DESCRIPTION OF REQUIREMENTS	IMPACT TO OPERATOR (ACTION TO COMPLETE)	OPERATOR'S COMMENTS/FEEDBACK	CURRENT PROCESS IN PLACE (LIST OF RELEVANT DOCUMENTS/PROCEDURES)	OPERATOR AREAS OF STRENGTHS	GAP (Y/N)	DESCRIPTION OF GAP	GTS RECOMMENDED POTENTIAL TO CLOSE GAP
49 CFR PART 191 - TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE; ANNUAL, INCIDENT, AND OTHER REPORTING: MAOP EXCEEDANCE, PIPELINE REPORTING REQUIREMENTS								
§ 191.23 Reporting safety-related conditions	Reporting of MAOP exceedance > safety margin	Throttling device set-points guidance established Optimum throttling set-points determined Method(s) in place to determine and document MAOP exceedance Procedures updated and MOC activities fulfilled to ensure organizational knowledge						
§ 191.25 Filing safety-related condition reports	Reporting of MAOP exceedance to be within 5-days of recognition	Physical ability to discern MAOP exceedances within established timelines Method in place to correct future issues Reporting guidance established/updated Procedures updated and MOC activities fulfilled to ensure organizational knowledge						
49 CFR PART 192 - INCORPORATION BY REFERENCE, INTEGRITY ASSESSMENTS, MATERIAL PROPERTIES VERIFICATION, MAOP RECONFIRMATION, PIPELINE SAFETY, PREDICTED FAILURE PRESSURE, RECORD/KEEPING, RISK ASSESSMENT, SAFETY DEVICES								
§ 192.3 Definitions	Definitions Established/Changed: 1. Moderate Consequence Area (MCA) 2. Engineering Critical Assessment (ECA)	Definitions section of company's guidance material or procedures has been updated to reflect these changes MOC activities fulfilled to ensure organizational knowledge						

- Example of how the assessment matrix is structured & organized
- End result: operator knows where they stand with each section of the code change



Specific Areas GTS Gap Analysis Matrix Covers





Why is this Helpful?



The Matrix provides an organized approach to the rule changes



Allows utilities to understand and evaluate current state



Can help break down what is a code requirement vs. recommended action



GTS Assessment Method

Program Structure

GTS will complete the review and evaluation in three stages:

Project Kickoff

- Develop communication plan
- Understand organizational structure & responsibilities
- Identification of SMEs for interviews
- Develop project schedule
- Access to procedures, programs, standards, etc.

Project Execution

- Review procedures, programs, standards, etc.
- Complete the Matrix & gap analysis
- Conduct interviews with SMEs
- Draft report and review findings with SCG for feedback
- Finalize report & Assessment Matrix™

Project Closeout

- Present findings to stakeholders
- Deliver Final Report & Compliance
 Assessment Matrix™



GTS Gap Analysis - Deliverables

Deliverable	Description		
Compliance Assessment Matrix™	 Filled out with the results from the gap analysis Recommendations to close all gaps 		
Final Report	 Completed detailed report for all areas of the gap analysis: Review of programs, standards, procedures, etc. Results of SMEs/personnel interviews Results of overall assessment 		
Presentation of Final Results	 Develop & present results/findings to stakeholders Customize the presentation for you to communicate to your leadership, as desired 		



GTS Method & Approach



Review of existing standards, processes, and procedures

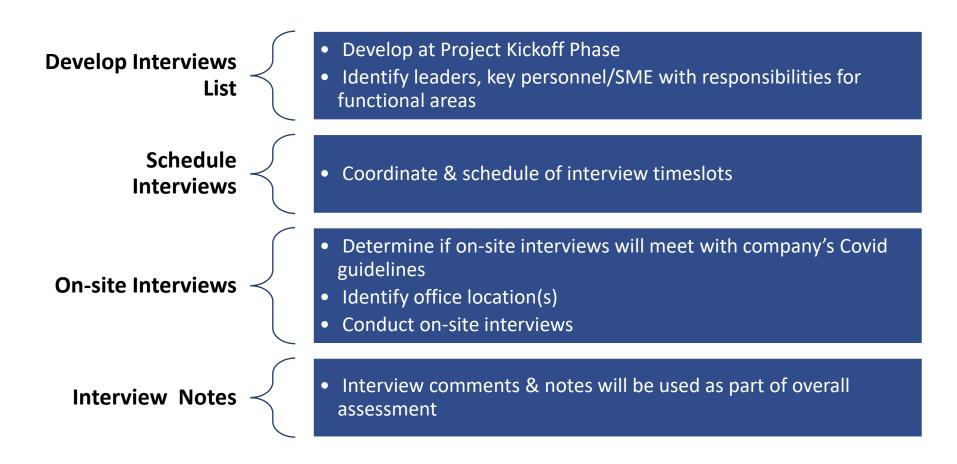
- 5 Identify recommendations, findings
- Complete documentation of gap analysis
- 6 Create findings report with recommended actions
- Interview key stakeholders to current state, potential gaps and areas of improvement
- 7 Final communication

Complete documentation/gap analysis



SME Interview Process

Due to Covid restrictions and depending on when we start the project, on-site interviews with SMEs might have to be conducted via online/video conferencing.

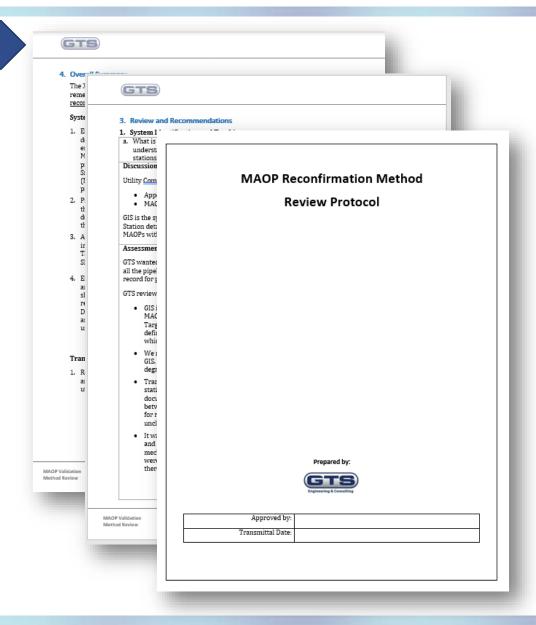




Findings Report

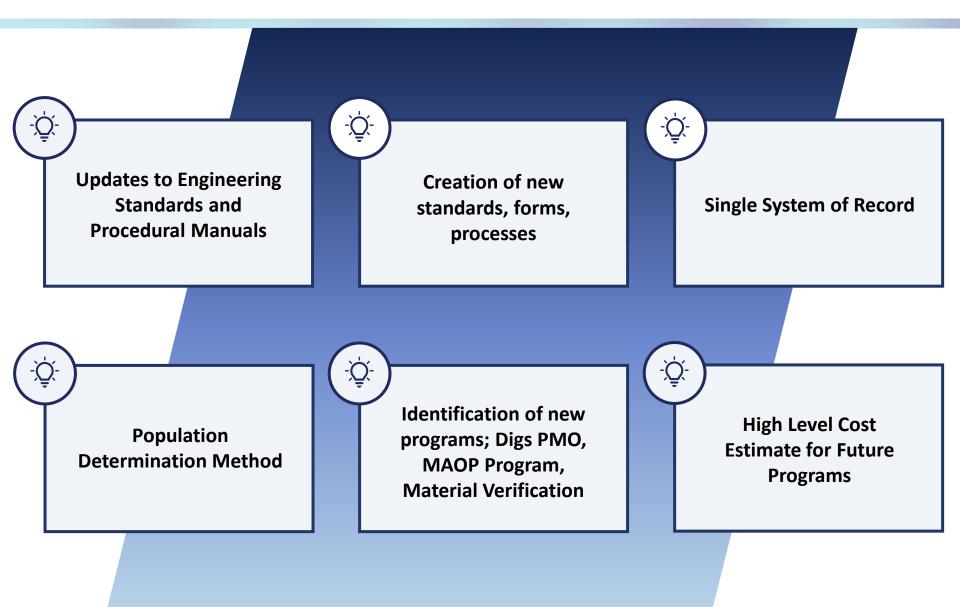
Detailed look at Gap Matrix

- 1 Description of rule change
- 2 Documents reviewed for rule
- 3 Interview notes
- 4 Description of gap
- 5 Recommendation to close gap
- 6 Compliance date



Downstream Operator Actions

Recommendations & Solutions



Detailed Recommendations



192.67 & 192.205 - Material Records - Revise the Standards Manuals for material records retention requirements for pipeline materials and pipeline components.



192.607 - Material Verification - Develop and implement a Material Verification Program to create and maintain material records wherever traceable, verifiable, and complete material records do not exist.



192.619 - MAOP Determination - Revise Test Factors per 192.619 (a)(2)(ii) - Table 1 for pipe installed after July 1st, 2020.

- Develop Station Features Lists in order to establish station MAOPs.
- Input an MAOP Calculator into a system of record



192.624 - MAOP Reconfirmation - Develop procedures in accordance with 192.624 to reconfirm MAOP according to methods 1-6 wherever required by 192.624. Procedures must be developed by July 1st, 2021.



192.632 – Engineering Critical Assessment (ECA) – Develop written procedures and protocols in compliance with this section if it is desired to establish MAOP using an ECA.



Parting Thoughts









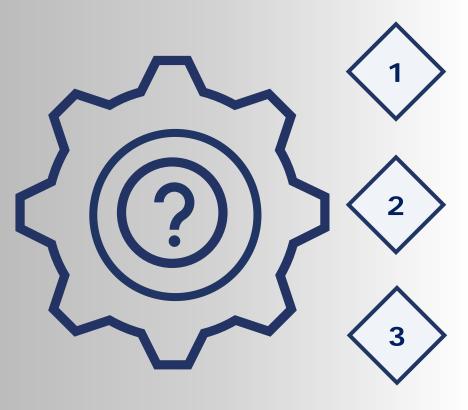
By July 2021 MAOP Reconfirmation Procedures & Plan in place Mega Rule Part 2 is fast approaching.
It's important to begin now

PHMSA will be inspecting all these areas/ subjects beginning December 31, 2020

Let us help you get there!



Closing



Comments & Questions

Next Steps & Follow-up

Contact Us

- Jessica Sheldon jessicasheldon@gtsinc.us
- **Tyler Enos** tylerenos@gtsinc.us