

### **SSUES** Encountered on Pipeline Construction



### Presented by: Adam Nietsche

Year 1981 Founded 5,295+ **Pieces of** Equipment 2,300+**Employees** Miles of 10,000+ **Pipeline Laid** 

7M+

Safe Man **Hours 2024** 

12

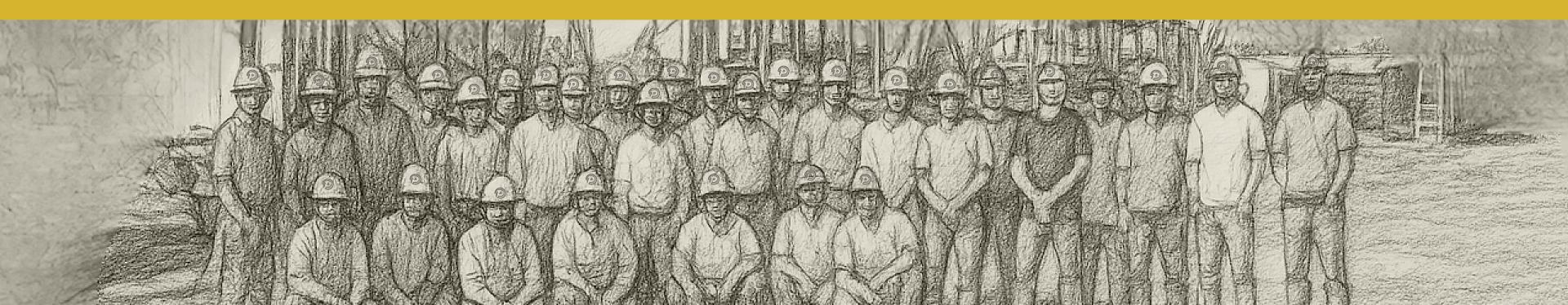
Licensed **States** 

**Certified Minority-Controlled Company** 





### We prioritize safety because every employee has a life beyond their trade and we want them to live it fully and abundantly.



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## Environment

We're committed to leaving every site better than we found it—protecting land, water, and wildlife for the communities that follow.







# How it's Going



# What's Changed

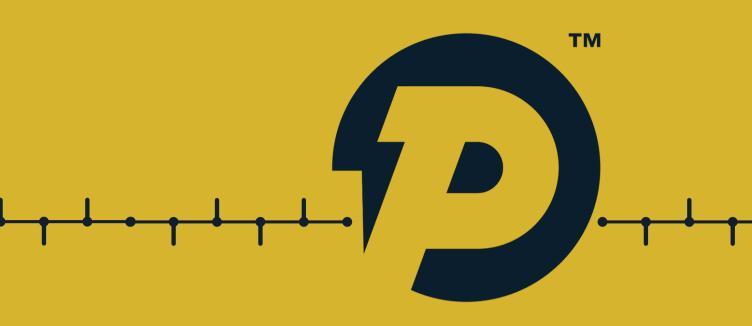


## Everything.

## 1800s

## **Pre-Regulation Era**

- Gas Milestone (1821): First commercial natural gas well (Fredonia, NY)
- Pipeline Use: Local, no federal oversight
- Welding/Coating: Welding had not yet been adopted for pipelines **Pipelines used threaded/wrapped joints, often with cloth and coal tar**
- Note: No standardized welding or coating codes yet



## 1930s

### **First Federal Oversight**

**Regulation starts at the transport level, but construction** methods (welding/coating)still vary by region

- Gas Milestone (1938): Natural Gas Act regulates interstate gas transport
- Welding Code (1935):
- ASME publishes Boiler and Pressure Vessel Code first welding procedure qualification standards
- Coating Note: Coating methods still rudimentary (coal tar, asphalt, or wax coatings)
- No codified coating application standards yet



## 1968

### **Birth of Modern Pipeline Safety**

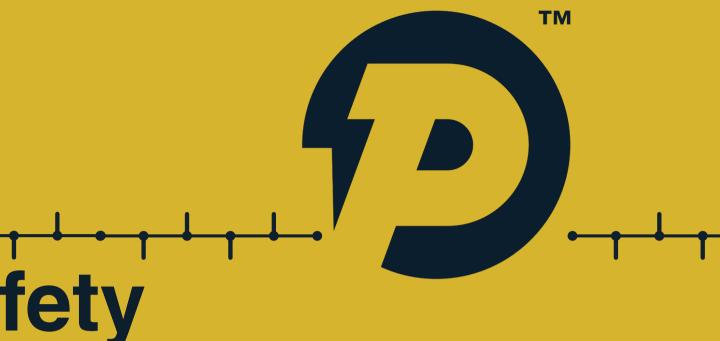
- Pipeline Milestone (1968): Natural Gas Pipeline Safety Act gives DOT authority
- Welding Code (1942–1960s):

API 1104 introduced by the American Petroleum Institute — specifically for pipeline welding. Widely adopted in the 1950s and 60s by pipeline contractors and later referenced in federal regs

• Coating Milestone:

Early standards for fusion bond epoxy (FBE) and polyethylene tape systems begin to appear **NACE (now AMPP) develops first formal corrosion protection guidelines** 

Welding and coating start being treated as critical safety elements in federally regulated construction.



## 1970s

### Here Comes the Government

- **1970 OSHA and EPA formed**
- 1974 PHMSA's predecessor starts overseeing pipeline safety
- 1974 FERC assumed FPC's responsibilities in 1977 when the U.S.
- **Department of Energy was created**

Welding Code:

• API 1104 becomes the primary welding code referenced in DOT regulations Coating Code:

- NACE published key industry standard on cathodic protection
- Evolution toward liquid epoxy and powder coatings

Regulations shift from "build it tough" to "build it safe, clean, and monitor it."



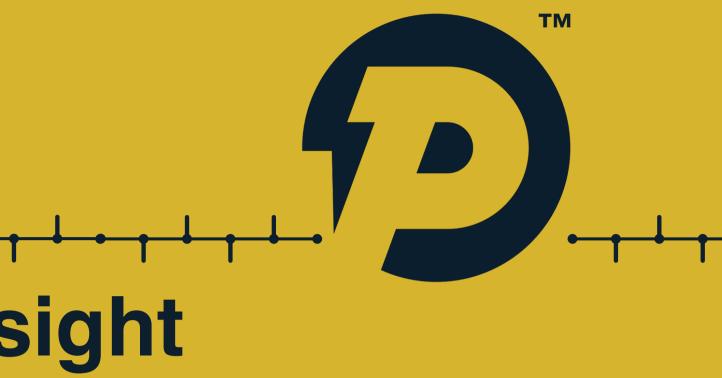
## 2000-Present

### **Integrity & Data-Driven Oversight**

- **2002 Pipeline Safety Improvement Act**
- 2020+ Emphasis on cybersecurity, digital mapping, methane tracking

### Welding Code:

- API 1104 and ASME Section IX are continuously updated with procedural testing, automated welding, and welder qualification rules **Coating Standards:** 
  - NACE SP0394, SP0102, and others codify inspection, surface prep, and coating QA/QC
  - Fusion bond epoxy, field-applied liquid coatings, and plural-component systems are regulated more strictly



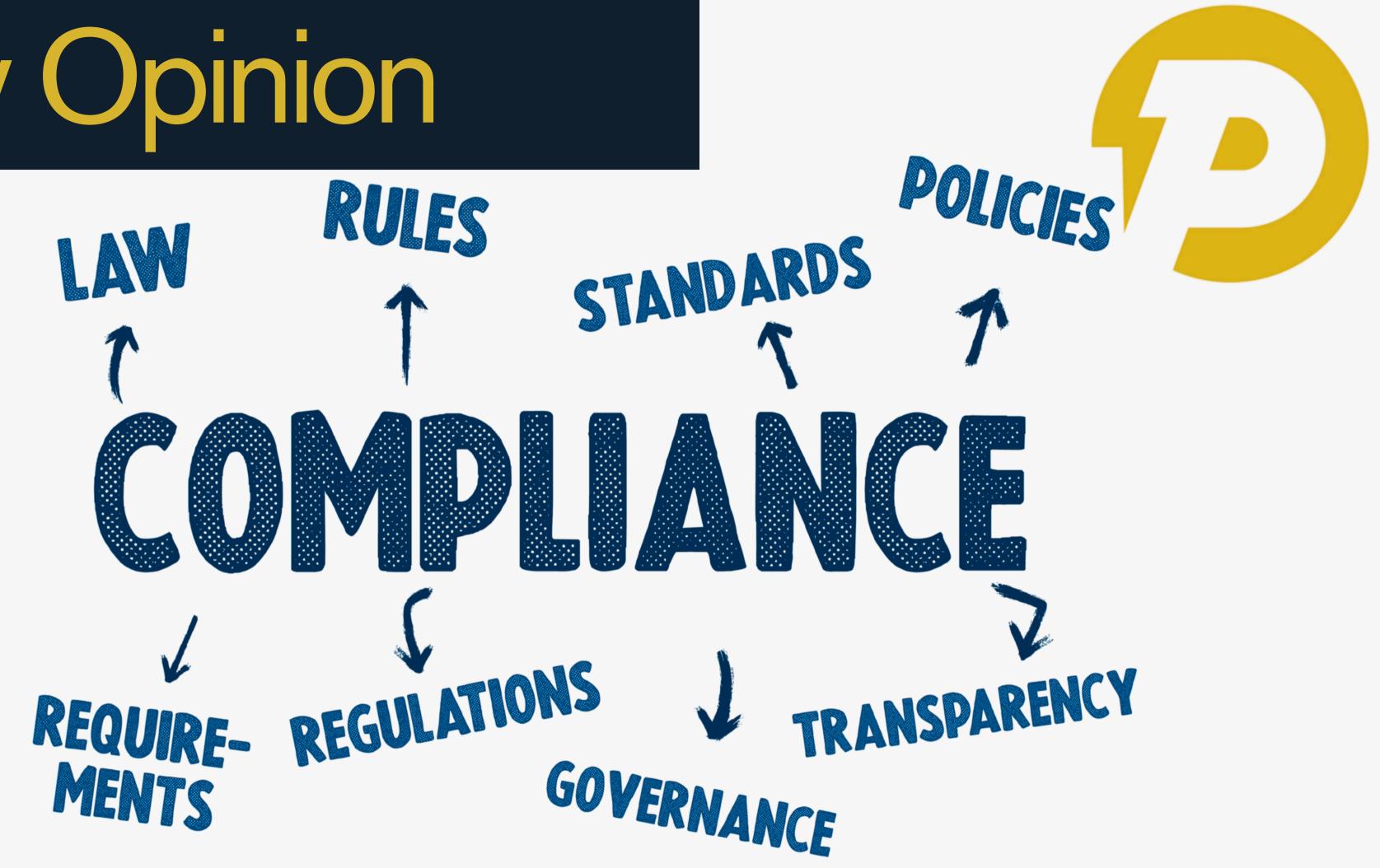
# Why It Matters

### Welding and Coating quality are now regulated by both industry standards and federal law, enforced through audits, data logging, and integrity assessments.





### Dpinion





### What Stays the Same:

- PHMSA pipeline safety rules
- Welding Code (API 1104, ASME Section IX)
- Coating and corrosion control standards (NACE/AMPP)
- OSHA safety standards (trenching, PPE, confined space)
- Integrity Management Program (IMP) requirements

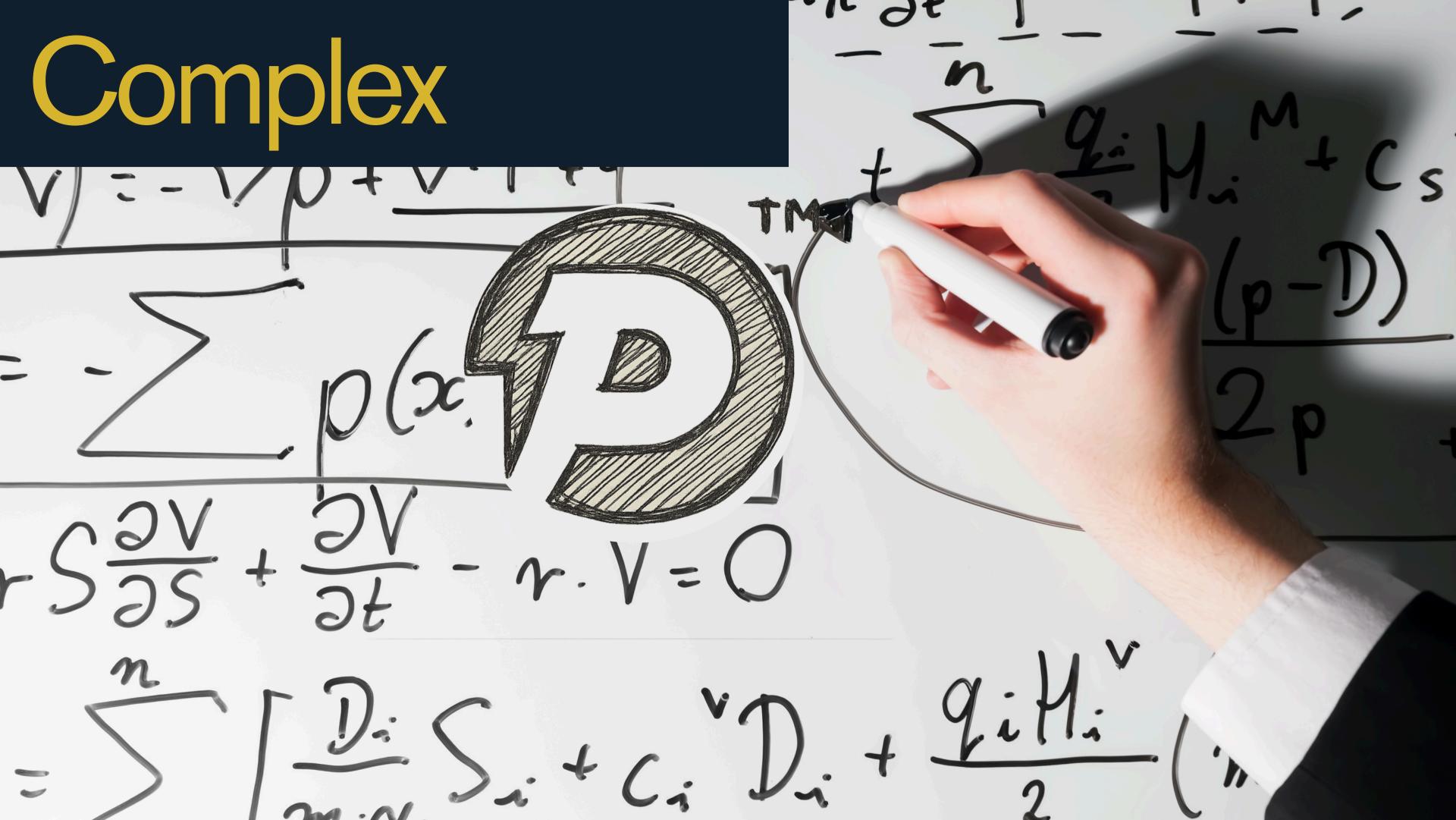


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- Clean Water Act interpretation (e.g., WOTUS rule)
- OSHA enforcement intensity
  - (fines vs. training emphasis)
- Federal permitting timelines and approval likelihood

### What Changes with **Political Party:**

- EPA enforcement of methane emissions standards
- NEPA review scope and speed



# What Works for Us

- Stay flexible adapt to new rules quickly
- Review PHMSA, EPA, and OSHA updates quarterly
- Keep welding, coating, and safety records clean and current
- Bring in outside audits to catch issues early
- Use legal or compliance partners to guide tough changes





# Training Is a Must

- Make safety and compliance training part of the routine
- Focus on key areas: welding, coating, OSHA, EPA
- Ensure certifications are current and properly filed
- Tailor training to each job's risk and location
- Empower field leads to flag issues early

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U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration





### 02 Bring Solutions not Problems

**03** Get Involved

O4 Facts not Opinions

### 05 Be a Partner, Not Just a Vendor

