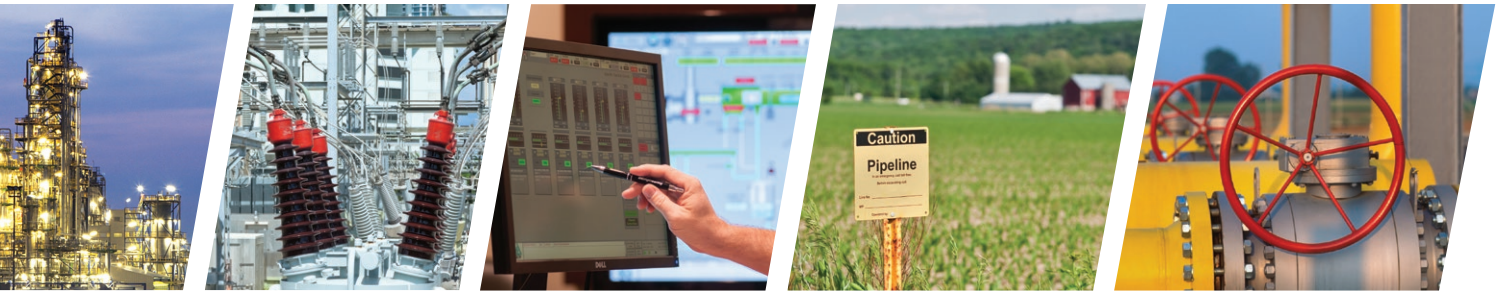


Pipeline Safety Audit



Introduction

EN Engineering is uniquely qualified to help natural gas and liquid pipeline operators perform in-depth reviews of their pipeline safety programs and procedures. Our integrity professionals work with a variety of operator stakeholders, including legal counsel, internal audit, upper management, and program managers, to evaluate the current state of pipeline safety programs against regulatory requirements and industry best practices.

Overview

EN Engineering's experienced operating and codes compliance professionals are knowledgeable about current and pending regulations, actively help operators develop and implement their pipeline safety programs, and are involved in trade organizations and committees. As a result, we are able to perform detailed reviews and provide meaningful, actionable recommendations to operators.

EN Engineering's compliance reviews can include any or multiple pipeline safety programs including:

- Transmission integrity management
- Distribution integrity management
- Hazardous liquids integrity management
- Control room management
- Corrosion control
- Operations and maintenance
- Operator qualification

Process

EN Engineering utilizes a phased approach to the pipeline safety audit process.

Phase 1: Written plan and procedure review

During this phase, EN Engineering identifies gaps in written procedures as they relate to pipeline safety code and industry reference documents. Written procedures are compared against code and industry documents such as:

- 49 CFR Parts 191, 192, 195
- PHMSA inspection protocols
- PHMSA frequently asked questions
- Incorporated by reference documents (ASME, NACE)

Phase 2: Personnel interviews and documentation review

EN Engineering uses this phase to better understand operator processes and procedures and to begin identifying areas where actual practice differs from written procedures. Additionally, during this phase we review documentation and records to ensure they meet the intent of code and the requirements of operator plans and procedures.

Phase 3: Preparation of a formal report and presentation to management

In this final phase, EN Engineering compiles the information and prepares a final report summarizing overarching deficiencies. Additionally, EN Engineering provides a detailed listing of observations that includes:

- State of observation
- High level recommendation
- Code or industry document reference (when applicable)
- Prioritization (e.g. code compliance, industry guidance)

Operators are able to use the detailed list of observations as the basis for any future action plans and to track status.