



SUBPART P - §192.1007

A written integrity management plan must contain procedures for developing and implementing the following elements:
(a) *Knowledge*. An operator must demonstrate an understanding of its gas

distribution system developed from reasonably available information.



KNOWLEDGE

Develop understanding of system from reasonably available information

 Does not require search through every archived (i.e. – offsite or stored) records

 Does not require additional investigations (i.e. – excavation) to discover information

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KNOWLEDGE

Must assemble reasonably available information to the extent necessary to support development and implementation of IM program







INFORMATION SOURCES

- Incident Reports (§191.19)
- *Other State Reporting Requirements
- * Safety Related Condition Reports (§191.23)
- Investigation of incidents and failures, or root cause analysis (§192.617)











§192 INFORMATION SOURCES

- * Subpart I Corrosion Control
- * §192.459 Exposed pipe inspections
 - * Any time metallic pipe is exposed, an inspection should be recorded.
 - Not necessary to remove coating if in good condition
 - Only required for metallic pipe, but good idea for plastic to help determine unknown material





















 Corrosion information found in records, surveys, or patrol information

- Other Corrosion Information
 - Close interval surveys
 - * Other electrical studies such as DCVG
 - * Shorted casings and electrical isolation











§192 INFORMATION SOURCES

- Subpart M Maintenance
- * §192.721 Patrolling
 - Areas patrolled more frequently because of severity of conditions, or on structures where physical movement or external loading (i.e. – bridges)

* Records of results of patrols







§192 INFORMATION SOURCES

- * §192.753 Caulked bell and spigot joints
- * §192.755 Protecting cast iron pipeline
 - * Areas where bell and spigot joints sealed
 - * Protection of cast iron lines from outside forces
- * Written records and maps
- Operational knowledge from individuals











RECORD RETENTION

- * §192.1015(c) The operator must maintain, for a period of at least 10 years, the following records:
 - (1) Written IM plan (including superseded plans)
 - (2) Documents supporting threat identification
 - (3) Documents showing location and material of piping and appurtenances installed after IM, and to the extent know, the location and material of all existing pipe and appurtenances



INFORMATION SOURCES

Incident, failure, and other information useful for:

- *Knowledge of system
- Trending
- Threat identification and assessment
- Risk analysis
- * Developing Performance measures









