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Pipeline Compliance Standard Summary Checklist Pipeline Owners and Operators

Pipeline operators, at a minimum, shall comply with the following requirements:

SAFETY AND LOSS MANAGEMENT SYSTEM (SLMS)

Safety and Loss Management Program

CSA Z662-23 [3.1.1] and [3.1.2]

The operating company shall have a safety and loss management program that provides for the protection of people, the environment, and property. The operator's SLMS shall contain, at a minimum:

Integrity Management Program

CSA Z662-23 [3.2] and CSA Z662-23 Annex N

An Integrity Management Program that addresses the life cycle of the pipeline system including methods for collecting, integrating, and analyzing information for the following:

- Design and construction
- Condition monitoring
- Maintenance and repair
- Operating conditions
- Failure incidents
- Damage incidents
- Damage and deterioration (e.g., corrosion)
- Manufacturing imperfections
- Environmental protection
- Safety

Emergency Management Program

CSA Z662-23 [3.1.2 f) vii)], [10.5.2.1]

An Emergency Management Program that includes:

- a) Procedures for the safe control or shutdown of the pipeline system, or parts thereof, in the event of a pipeline emergency
- b) Safety procedures for personnel at emergency sites

Security Management Program

CSA Z662-23 [3.1.2 f) viii)]

CSA Z246.1-21 [5.1]

A Security Management Program that provides the flexibility needed for proactive decision making to address the security risks to an operator.

PROTECTING PHYSICAL ASSETS

CSA Z662-23 [9.1.6], [9.5.1]

Operator companies shall protect steel pipes with cathodic protections.

CSA Z662-23 [12.6.4.5]

All polyethylene pipes installed by pipeline operators shall be traceable.

CSA Z662-23 [10.15], [10.16]

Deactivation, reactivation and abandonment of a section of pipelines must adhere to the requirements set out in Z662 standard including record keeping requirements

PROTECTING CUSTOMERS

CSA Z662-23 [4.21]

Pipeline operators shall odorize the gas as defined in the Z662 standard before delivering to customer.

CSA Z662-23 [12.4.11]

Pressure control and overpressure protection for gas distribution network shall be installed in accordance with Z662 standard.

MAPPING REQUIREMENTS

[Ontario Regulation 212/01: Gaseous Fuels](#) S.10

CSA Z662-23 [10.5.1.1]

CSA Z247-15 [10.1.1.2 and 10.1.1.3]

Pipeline operator companies shall maintain accurate records, maps and drawings of their pipeline systems and shall have the ability to efficiently and accurately identify their respective buried infrastructure when responding to locate requests from excavators.

CSA Z662-23, [10.5.3.1 and 10.5.3.2]

Pipeline operators shall demarcate their assets with warning signs in high-risk or high-traffic areas to reduce the likelihood of damage and/or interference. Note: Strategic areas may include utility corridors, construction activity, drainage systems, and other anticipated third-party activity.

PERSONNEL COMPETENCY AND TRAINING

CSA Z662-23[10.2.1] & [11.26.9]

[Ontario Regulation 215/01: Fuel Industry Certificates](#) s.23 and s.42

Operating companies shall have competent and adequately trained personnel involved in the design, construction, operation, and maintenance activities including having Fuel Oil Pipeline Inspector (OPI) and Gas Pipeline Inspector (GPI) certificate holders (or a professional engineer) performing the task of examining the pipeline systems' compliance to the regulations being enforced.

INCIDENT RECORDING AND REPORTING

[Ontario Regulation 210/01: Oil and Gas Pipeline Systems](#)

When operators discover carbon monoxide poisoning, asphyxiation, explosion or fire has occurred on their pipeline network, or an accidental release, vent or spill has occurred because of the use, handling or storage of oil or gas, operators must report the incidents to the Spills Action Center under the Ministry of Environment.

CSA Z662-23 [10.4.4]

Operators shall maintain a record of all damage incidents related to external interference and failure incidents throughout the life cycle of the pipeline.

TSSA'S FIELD VERIFICATION

At a minimum, operators must mitigate safety risks arising from high-risk activities as identified in TSSA's Field Verification manual.

CSA Z662-23 [12.4.15.1]

Operators shall have signage outside of the buildings for regulators located inside buildings.

Section 7 of [Ontario Regulation 210/01: Oil and Gas Pipeline Systems](#) and section 16 of [Ontario Regulation 212/01: Gaseous Fuels](#)

Gas distributor shall inspect the appliance before the appliance is initially put into use for the first time, and the distributor must inspect the appliance every 10 years for regulatory compliance (or at an interval determined by the quality assurance program).

CSA Z662-23 [12.4.15.4]

Operators shall adequately protect the meter set from vehicular traffic.

CSA Z662-23 [10.5.3.1 and 10.5.3.2]

Pipeline warning/identification signs should be installed in strategic areas as specified in the standard.