

## Operations Regulatory Compliance

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### Closed Report - CV1920-463 - 12 March 2020

**Event Type**

Field  
Inspection

**CV Event Number**

CV1920-463

**Project Companies**

- Trans Mountain Pipeline ULC

**Name of the Operating Company**

Trans Mountain  
Pipeline ULC

**Rationale, Scope, and Additional Description**

Field inspection of the Edmonton Terminal. Assess compliance to OPR Safety Management requirements.

**Selected Province/Territory**

- Alberta

**Start Date**

2019-10-22

**End Date**

2019-10-24

**Inspection Officer Number**

- 1137
- 2648

**Selected Disciplines**

- Safety Management
- IAMC Observation

**No Tool Used**

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**This inspection was undertaken to verify compliance with the following legislative requirements:**

- National Energy Board Act (NEBA)
  - National Energy Board Act (NEBA) 2016-06-19
  - National Energy Board Onshore Pipeline Regulations (OPR)
- Canadian Energy Regulator Act (CERA)
  - Canadian Energy Regulator Act (CERA)

- Canada Labour Code (CLC)
  - Canada Labour Code (CLC)
  - Canada Occupational Health and Safety Regulations (COHSR) 2016-06-14
- Standards
  - CSA Z662-19 - Oil and Gas Pipeline Systems

### **Selected Regulatory Instrument Numbers**

Not Selected

### **Facility Details**

#### **Facility Types**

Pipeline

- Terminal

#### **Life-cycle Phases**

- Operations

### **Additional Information**

All facilities owned or operated by company

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## **Observations (No follow-up required)**

### **General Safety Observations**

#### **Date**

2019-10-22

#### **Discipline**

IAMC

Observation

#### **Categories**

- General
  - General

### **Facility**

#### **Observations**

CER inspectors and IAMC Monitors received the TPU Edmonton Terminal specific orientation. This orientation was very comprehensive and clearly presented. It included as an example some of the following items:

- General Orientation to the terminal including reviewing a site map in detail
  - Safety Hazards
  - Emergency Alarms and Muster areas
  - Safe Work Plan, permit procedures, and requirements for the Field Level Hazard Assessments
  - LOTO procedures
  - PPE
  - Personal electronic devices
  - Positive Air Shut Offs
  - First Aid and incident reporting.
  - Life Saving Rules
  - Fire Safety Plan and Map in every building on site
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- The terminal inspection was an accompanied inspection:
  - Shop:

- Eye wash and fire extinguishers had been checked and were valid.  
Lanyards and slings were in good shape, properly stored with no frays and weight limits clearly visible.  
House keeping was satisfactory and area was clean and orderly.  
Egress was clear.  
Crane log book was checked and found to be in good order and current, annual crane certification is kept with the maintenance supervisor  
Flammable storage cabinet was vented to the outside  
Extension cords were in good condition and stored properly
- Warehouse
  - Warehouse:  
Flammable storage cabinets were vented outside of the building.  
Shelving was load rated  
Very clean and orderly  
Fire extinguishers, first aid supplies, and eyewash stations are inventoried into maintenance management system and were satisfactory as to cleanliness and monthly inspections.  
Forklift logbook checked, current and in good order
- Meter Bank (outdoor):
  - Very clean and orderly
  - Crane log book was checked and found to be in good order and current
- Tank API 653 maintenance:
  - Reviewed daily reports
  - work consisted of installing a new floor inside the tank
  - reviewed SDS sheets for sandblasting compounds
  - reviewed daily equipment inspection checklists

**Tool Used**

No

Tool Used

**Date**

2019-10-24

**Discipline**

Safety

Management

**Categories**

- Workplace Exposures and Protections
  - Hazard Assessment
- Training and Competency
  - Training and Competency
- Temporary Structures
  - Signage
- Lighting
  - General Lighting
- Noise Control

- Monitoring/Evaluation

## Facility

### Observations

- Reviewed Personal Protective Equipment Procedures (PPE)
- Reviewed Noise level Survey documentation
- Reviewed Health & Safety Standards manual

### Tool Used

No

Tool Used

## IAMC Observations

### Date

2019-10-22

### Discipline

IAMC

Observation

### Categories

- General
  - General

## Facility

### Observations

#### Indigenous Monitor (IM) #1 Observations:

TransMountain Edmonton Terminal:

Safety Inspection: October/22/19

On October 22nd we met with TransMountain representatives at the Edmonton Terminal. We met with the Environmental Planner, Health and Safety Advisor and The Manager of the Terminal.

On October 22, CER senior inspector and operations technical specialist did a safety investigation on the terminal.

- There were no non-compliances identified during this inspection
- The TransMountain facility appeared to be very well maintainedIM

#### Indigenous Monitor (IM) #2 Observations:

Glossary:

CER – Canadian Energy Regulator

IR – information request

FN – First Nation

PSV – pressure safety valve

AER – Alberta Energy Regulator

IM – indigenous monitor

TLU – traditional land use

Introduction:

The inspection was completed at the Trans Mountain Edmonton Terminal on October 22nd and October

24th 2019. The inspection was conducted by the Canadian Energy Regulators and by two Indigenous monitors from Alexander First nation and Sucker Creek First Nation.

The focus of the IM monitors is to ensure that during all processes of the Trans mountain expansion project, and management of existing facilities, that all TLU sites are mitigated properly, all new or missed TLU sites are identified properly and mitigated properly. Also to ensure that all FN concerns are mitigated, addressed and informed upon.

The entire grounds, retention pond, facility and piping was completed.

**Inspection:**

While inspecting the piping was noted that car seals were not on PSV's on the piping. The car seals ensure that the PSV is kept in the operable position while giving a visual identification that it has not been tampered with.

**Approach:**

An IR was issued by the CER which the Facility will give visual evidence of car seals in place and verify compliance with their new operating procedure. This is a leak mitigation which is an FN concern.

**Inspection:**

During the inspection of the grounds it was noted that there was some sluffing and rilling erosion at facility sites where a culvert was present. The environmental representative onsite stated that an erosion mitigation plan was already in place and being implemented onsite.

**Observations/Inspection:**

An inspection was also completed on the retention pond by the IM's and a CER officer for water and water purity is a heavy concern of FN communities.

During the inspection it was noted that the facilities retention pond has a one-million-barrel capacity which is 110% capability of possible containments leading to ensure that all of possible spill material will be contained in the facility.

When it comes to release of the water in the retention pond, the water is first tested for hydrocarbons by trained personnel which all tests are regulated & audited by the AER. It is also to note that visual inspection and chemical tests are completed monthly on the retention pond to ensure only pure water is released back into the environment.

It was also stated that the facility has hydrocarbon detectors on all inlet and outlet converts to the facility and if there is any detection than the valve is closed off and diverted to the retention pond for containment of the water. The measuring system is inspected regularly with annual overhauls of the detector. This ensures that only clean uncontaminated water is released back into the environment.

We also reviewed the training and competency program for the workforce. Through their new systems (WIMS) all training is tracked and kept up to date.

During the inspection no TLU sites were onsite and no new TLU sites were identified.

**Conclusion:**

No TLU sites were addressed or identified. All FN concerns were mitigated, addressed and concluded. No other concerns were identified during inspection.

**Tool Used**

No

Tool Used