

Operations Regulatory Compliance

Final Report - CV2021-224 - 11 August 2020

Event Type

Field
Inspection

CV Event Number

CV2021-224

Project Companies

- Trans Mountain Pipeline ULC

Name of the Operating Company

Trans Mountain
Pipeline ULC

Rationale, Scope, and Additional Description

TMX Project Valemont Work Camps - Condition compliance to contractor worker code of conduct in camps; Contractor community orientation program; Contractor overarching disciplinary policy; Contractor awareness program. Compliance to Conditions 59, 64 and 73. Assess implementation of COVID-19 safety and hygiene measures

Selected Province/Territory

- British Columbia

Start Date

2020-07-13

End Date

2020-07-17

Inspection Officer Number

- 2773
- T

Selected Disciplines

- Safety Management
- IAMC Observation

Tool Used:

- Information Request (IR) (2)
- Corrected Non-compliance (CNC) (6)

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

- National Energy Board Act (NEBA)

- 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
- Plans And Procedures
 - Manufacturer's manual
 - Valemount Lodge House Keeping Reference Manual 2020
 - Project-specific plan or procedure
 - Condition 64b Contractor Project Specific Safety Plans - TMEP Expansion Project, Valemount Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-004 2020-06-29
 - Project-specific plan or procedure
 - Condition 73 Traffic Control Plans, TMEP Expansion Project; ATCO Structures Traffic Control Plan 01-13283-S3-M002-HS-PLN-0003

Selected Regulatory Instrument Numbers

- OC-065

Facility Details

Facility Types

Pipeline

- Pipeline

Life-cycle Phases

- Construction

Additional Information

Valemount Industrial Work Camp

Selected Facilities

- TRANS MOUNTAIN EXPANSION PROJECT (Pipeline)

Observations (No follow-up required)

General Observation of Valemount Industrial Work Camp

Date

2020-07-15

Discipline

Safety Management

Categories

- Workplace Exposures and Protections
 - Safeguarding
 - Personal Protective Equipment
 - Industrial Sanitation and Personnel Facilities
 - Occupational Medical Surveillance

- Electrical Safety
- Fire Protection
- Limits of Exposure
- Labels and Documentation
- Hazard Assessment
- Materials Handling
 - Haulage and Off-Road Equipment
- Training and Competency
 - Training and Competency
- Permanent Structures
 - Stairs, Fixed Ladders and Access/Egress
 - Docks, Loading Ramps
 - Housekeeping
 - HVAC Systems
 - Shelving and General Storage
 - Signage
- Temporary Structures
 - Temporary Stairs, Ramps and Platforms
 - Signage
- Lighting
 - General Lighting
- Noise Control
 - Signage

Facility

Observations

General observations

- TransMountain provided CER Inspectors and Indigenous Monitor a copy of the TransMountain Pipeline ULC TransMountain Expansion Project CER Conditions 59 & 60 Temporary Worker Accommodation Valemount Area, report on TransMountain Covid -19 Preparedness and Planning report prior to safety inspection July 14th, 2020 start date. This report was perused by the CER inspectors and Indigenous monitor prior to starting safety inspection and observations during the inspection were validated with the report and Covid -19 protective measures appeared to have been implemented.
- Perimeter fencing and two gates appeared to be maintained in good condition with proper signage, including company and emergency contact numbers and warning signs to deter intrusion.
- CER inspectors and Indigenous Monitor were met at entrance gate to Valemount Industrial Work Camp by TransMountain representatives and each CER inspector & Indigenous Monitor were provided with a TransMountain Covid-19 Self declaration Questionnaire to complete and signoff and present to TransMountain (TM) Representative from a safe distance. TM representative verified that all check boxes on the the self-declaration form indicated a NO response and the form was signed prior to allowing access through the Work Camp gate. The T.M. representative inside the gate directed CER inspectors and Indigenous Monitor to the temperature checking area. The Covid -19 self-declaration form remained in the possession of the CER inspection and Indigenous Monitor for the duration of the inspection. The person completing, would be required to show T.M. representative again when leaving and/or accessing the camp. Form remained the property of the person completing the form.
- CER inspectors and Indigenous Monitor observed that T.M. representative and medical personnel wore Personal Protective Equipment (PPE) which included either N95 or surgical face masks at entrance to camp, and that medical personnel, with Occupational First Aid designation for British Columbia held an OFA3 (occupational first aid-level 3, British Columbia designation) took temperature checks of all workers entering the camp and exiting the camp and recorded the worker temperatures at that point of time. Temperature check range to allow camp access is between 35.8 and 38 Celsius range. Ranges above 37.5 C, supervisor is notified and three retests are required for that worker at .30 minute intervals.

- 25KV Overhead power line was identified by marker clearance banners at the safe clearance measure below the power lines along with administrative signage identifying both the electrical hazard and voltage of the line, 25 KV prior to crossing under the electrical lines at the Valemount Work Camp entrance point.
- TransMountain Company representatives delivered a site specific orientation to CER staff at Valemount Industrial Work Camp, which included a description of emergency procedures, alarm types and muster areas (i.e. A & B). Administrative controls (signage) identifying First Aid office were observed by CER Inspectors and Indigenous Monitor throughout the camp.
- CER Inspectors and Indigenous Monitor were provided a Field Level Risk Assessment (FLRA) for the Valemount Industrial Work Camp that was delivered by the TransMountain representative, prior to the inspection commencing.
- CER Inspectors and Indigenous Monitor observed TransMountain staff and workers in the camp practicing good hygiene practices, such as, wearing of surgical or cotton face masks and maintaining 2 metre (6 feet) distancing.
- CER Inspectors and Indigenous Monitor were provided a copy of the Valemount Camp Guest Welcome Package that is provided to all workers, and examined the Covid -19 measures which appeared to be stringent, complete, and current (i.e. July 13th, 2020 - Revision 2.0).
- General housekeeping appeared adequate, as indicated by such observations as: floors clear of tripping hazards; equipment and tools properly stored; waste material segregated; only garbage in garbage bins; only wood material in designated bins, bins identified with signage on what is allowed to be placed in bin and bins not over-filled.
- CER Inspectors and Indigenous Monitor observed hand sanitizing dispensers placed throughout the camp and workers using the dispensers to sanitize hands on a regular basis when passing through the dorm corridors.
- CER Inspectors and Indigenous Monitor observed Camp kitchen staff to be wearing disposable surgical masks, nitrile gloves and hairnets.
- CER Inspectors and Indigenous Monitor observed that the Camp worker eating area, had worker traffic flow markings on the tiled floor to identify worker direction, thus mitigating on-coming worker contact, and eating areas "tables" were spaced 2 metres apart with allocated chairs per table to maintain safe distancing between workers.
- Extension and step ladders were safely stowed such that they did not pose a tripping hazard or danger from falling.
- Extension ladders in use were secure, as they were tied off at both top and bottom of ladder.
- CER Inspectors and Indigenous Monitor observed horizontal life lines erected on top of several of the dorm trailers, which TransMountain provided documentation showing the Travel Restraint System unit serial numbers, date system was certified, and next inspection date. High Engineering Ltd. professional engineer had stamped the HLL (horizontal lifeline) systems in May of 2020.
- Portable fire extinguishers of appropriate type were placed near doors and egress ways and affixed tags had up to date inspections and maintenance recorded.
- Emergency equipment, including both eyewash bottles and stations through-out camp dorms and common meeting areas, automated external defibrillator (AED), fire blankets had up to date inspections recorded on affixed tags. One eye wash station was observed in kitchen area to be missing, but was observed to be equipped with an eye wash bottle in a timely manner.
- CER Inspectors and Indigenous Monitor were provided the Valemount Lodge Housekeeping reference manual for the Valemount Camp, which is a joint venture between Simpcw Resources Group and ATCO which is a procedural based document detailing the requirement for cleaning staff to complete a FLHA, review Safe Work Practices and Procedures for each cleaning task prior to starting work. This manual encompasses work procedures such as, completing a walk down, room cleaning, steps required before entering a room, how to strip a room to ensure effective cleaning of all items in the room: bed, desk, closet, sink and towel rack, walls and baseboards, doors, shower, toilet. bathroom floors, heater/AC unit, etc.
- CER inspector examined ATCO Emergency Management Drill report that was conducted on July 7th, 2021 at the Valemount Camp, the results of the evacuation exercise were positive, with all personnel in the Camp being accounted for at the South Muster Point in 6 minutes after the evacuation was invoked.
- CER Inspectors and Indigenous Monitor observed cleaning products during inspection and verified that Safety Data Sheets were readily available to staff using those products. Also, no decanting of any products was observed, all cleaning products were in the manufacturer dispensing containers.
- Access/Egress steps to Dorms were equipped with handrails, steps & risers, being constructed of

material in good condition.

- Parking area for camp contained within perimeter fencing was well graded and aggregate applied.
- Vehicles were observed by CER inspectors and Indigenous Monitor to be operated in a safe manner during inspection at all sites.
- Mobile equipment observed by CER inspectors and Indigenous Monitor appeared to be in good condition, was parked securely, and operator logbooks was onboard and found to be complete, with signed entries of pre-use checks.
- Mobile equipment checked was equipped with a suitable type ABC fire extinguisher, and spill kit.
- Hazard warning signage was affixed to danger control zone marked with red flagging ribbon that was placed on the outside the excavated area in the parking area to identify and mitigate the hazard.
- Machine guards were in place on rotating equipment (chop saw).
- Industrial shelving storage observed by CER inspectors and Indigenous Monitor was secure to wall, and there was no apparent overloading of shelves.
- Dorm washrooms were functional and sanitary. Four (4) portable toilets on site were operational, clean, and equipped with sanitary hand disinfectant.
- TransMountain employees accompanied the CER inspection team, maintained safe distancing Covid -19 measures and wore either disposable surgical or cotton face masks; these employees provided helpful explanations of camp work processes, and demonstrated competency when queried on matters pertinent to their role. Also, a demonstration was provided to the CER inspectors and Indigenous Monitor for a room in the Dorm, on how performing the cleaning measures that are completed prior to a room being occupied by a worker and when a guest leaves the camp.
 - The above procedure for 'cleaning a room and changing linen' was explained to be different than the cleaning and sanitizing process that's used when a suspected case of Covid -19 is involved, which was declared to take more than two hours per room.
- CER inspector examined the Camp Audit conducted on July 9th, 2020 for Food Preparation & Service, Office Front Desk, Housekeeping and Janitorial, Recreation Fitness, Waste Management and Maintenance observed a pass score for all areas audited. Also the Camp Audit conducted on July 12th, 2020, the CER inspector noted that the Occupancy and Fire Permits were in place, and the Food Safety Regulatory Bodies pass score for all regulations were met, as per the Health Inspector on July 12th.
- CER inspector checked with TransMountain representative that Coolers, Freezers, and Dishwashing temperatures are maintained to required operating temperatures and checked twice a day with temperatures, inspector verified the records. CER inspector confirmed that the temperature checks are being done, and the record is kept and posted by the cooling/cleaning kitchen appliances.

Tool Used

No

Tool Used

Indigenous Monitor Observations

Date

2020-07-15

Discipline

IAMC Observation

Categories

- General
 - General

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

Valemount Camp Inspection

Pre-Inspection:

- 07/03/2020 Invite received
- 07/06/2020 Confirmation of IM participation
- 07/09/2020 C.E.R Inspection Officers (I.O) IAMC monitors (I.M) Introduction.
- 07/12/2020 Camp Overview map and Trans Mountain document related to their Covid-19 safety plan (dated July 3). As well as existing BC Ministry of Health, Public Health Order applicable to Industrial Camps and Covid-19.

Inspection:

07/14/2020

- Inspection briefing between I.O's and I.M's off site, to review scope and available information for topics of interest as well as Covid-19 and safety protocol for camp check-in .
- Front gate security check only to confirm your identity and temperature scan with COVID-19 Symptoms declaration. (to be carried with you at all times on site.) Face coverings are also necessary to check in and all of camp where social distancing is not possible.
- ATCO worksite specific briefing held indoors of camp. Second temperature scan and Covid-19 par-Q.
- Opening meeting with Trans Mountain (TM)
- Introduce C.E.R and review scope of inspection.
- Introduce IAMC monitors and review Monitors concerns and questions.
- First topic was Reconciliation and recognizing everyone can have a positive impact.
- Camp operator application for liquor license? Camp is currently dry (zero tolerance), but license will allow each individual 2 drinks per day in the lounge area only. Drinks will be accessed with security I.D tag.
- Zero tolerance on THC and CBD.
- Health Facility being developed and built with a doctor's oversight to help minimize the possible stress from population influx to rural area. This program has continued input and guidance from a local health committee comprised of local health professionals and local political leaders and first nations communities. Health and safety have an indigenous skills and development framework. Worker mental health was also inquired about and TM replied that mental health is a part of their standard health and safety program.
- Covid-19 Information
- Every case will be evaluated by a Doctor.
- Suspect cases will not be ridiculed but rather praised.
- Suspect cases or symptoms will be called in to camp health facilities.
- Mandatory masks when social distancing can NOT occur.
- Common areas and spaces have signifying placards Green/Red for used or disinfected.
- TM Camp Welcome package in place has a Local First nations community territory map and acknowledgement comprised of two pages.

Peak Capacity Socio-Economic Impacts

-What Socio-economic implementations are there to create public feedback on concerns?

TM Stated that there is numerous reporting programs in place like 1-800 number, e-mail, and community forums.

-TM also stated there are many levels of engagement in the form of committees with meeting minutes that include local municipalities, communities, and stakeholders as well as local first nations communities. Such as Security Committee, Health committee, and Circle of Indigenous Engagement

.TM indigenous advisors are stated as crucial as each individual develops relationships with their specific first nations community.

07/15/2020

- Housekeeping room sanitization demo including changes due to covid-19

Full check out – 25mins Average

Linen change – 20 mins

Quick disinfectant – 15mins

Increased average time by 8-10 mins overall due to covid-19.

- Cleaning staff sanitize hands when changing wings in the camp.
- Environment friendly cleaners and disinfectant such as Oxivir
- Check outs require wall disinfection.
- No shaking or flapping of linen.
- Linen washed off site by professionals.
- All surfaces disinfected with color coded rags to limit cross contamination.
- New gloves when switching spaces from washroom to bedroom.
- Sanitization required when any camp staff enters a room for any reason.
- Cleaning sheet handed in and every task confirmed by supervisor initials.
- In the event of a positive case of covid-19 patient is quarantined on site. After patient leaves every item in the room is consider biohazardous material.

Traffic safety

- TM stated all Roadways to be considered level 3 even if not deemed so. Which requires over implementation on some sections of highway and needs a balance to keep from creating a more hazardous road by inconsistent traffic flows. This is an ongoing conversation with the ministry of transportation for application for approval.

Indigenous Monitor Concerns and Observations

- A concern as indigenous monitors is my in-person interactions with I.O that are flying and using international facilities with many different Covid-19 Procedures that are not standardized yet.
- TM has no temperature monitoring standards for equipment used.
- The regulation of contraband is the honor system no bag checks.
- Fit for duty and regulation if liquor license approved.
- After hours etiquette agreement effectiveness.

The relationship between TM and local first nations is positive and has many examples of continued engagement through many avenues. The most forth coming is committees for concerns and victories to be shared in a group setting and not just formal through electronic or paper communications.

Tool Used

No
Tool Used

Compliance Summary**Trans Mountain Expansion Project, CER Condition 73 - Traffic Controls Plans for Public Roadways; Valemount ATCO Camp Spread 3.****Discipline**

Safety
Management

Categories

- Workplace Exposures and Protections
 - Safeguarding

Facility**Observations**

Pursuant to Trans Mountain Expansion Project, CER Condition 73 - Traffic Controls Plans for Public Roadways; - please file the applicable contractor's (Ledcor/Sicim) Traffic Management Plan applicable to Spread 3.

- The Valemount Camp has established traffic routes that limit impact to local resident roadways, with restricted access and use of specific roads
- Trans Mountain has declared that all public roadways intersecting or impacted by the TMEP project, will be classified as "Category 3 roadways", as defined in the B.C. MOTI, Traffic Management Manual (the most strict or high risk control measures).
- In regard to community consultation, regularly scheduled meetings are taking place between municipalities, villages and councils along the right of way, to offer two way conversation regarding traffic observations or safety concerns.
- CER Inspectors questioned TMEP Managers about the readiness of the Spread 3 Traffic Management Plan (TMP), as of July 15, 2020 the TMP was with the B.C. MOTI and was currently under review for approval.

Tool Used

Information
Request (IR)

Legislative Requirement

Canadian
Energy Regulator Act (CERA)

Sections Of The Act**Canadian Energy Regulator Act (CERA)**

Decisions and Orders

✓ Conditions

65 A decision or order made by the Commission, a designated officer or an inspection officer under this Act may include any conditions that the Commission, designated officer or inspection officer considers appropriate.

Information Requested

Immediately file with the CER the applicable contractor's Traffic Management Plan, specific to the Trans Mountain Expansion Project, Spread 3 area of operation.

Due Date
2020-07-13

Trans Mountain Expansion Project, CER Condition 59 Worker Accommodation Strategy - Camp Health and Medical Services Plan.

Discipline
Safety
Management
Categories

- Workplace Exposures and Protections
 - Safeguarding
 - Industrial Sanitation and Personnel Facilities

Facility

- TRANS MOUNTAIN EXPANSION PROJECT

Observations

Pursuant to the Trans Mountain Expansion Project (TMEP), CER Condition 59 Worker Accommodation Strategy, TMEP is required to develop an appropriately scaled *Health and Medical Services Plan* for all camp operations.

Tool Used
Information
Request (IR)

Legislative Requirement
Canadian
Energy Regulator Act (CERA)

Sections Of The Act **Canadian Energy Regulator Act (CERA)**

Decisions and Orders

✓ Conditions

65 A decision or order made by the Commission, a designated officer or an inspection officer under this Act may include any conditions that the Commission, designated officer or inspection officer considers appropriate.

Information Requested

Immediately file with the CER the applicable ***Camp Health and Medical Services Plan*** as required under TMEP CER Condition 59, applicable to the Valemount Temporary Work Camp. .

Due Date
2020-07-13

CNC 1 - Vertical Ladders

Date

2020-07-14

Discipline

Safety Management

Categories

- Workplace Exposures and Protections
 - Safeguarding

Facility**Observations**

CER inspectors observed that vertical ladders accessing the top's of the four (4) fire water tanks did not have any anti-climb controls to prevent unauthorized or untrained workers from climbing the ladders.

Tool Used

Corrected

Non-compliance (CNC)

Legislative Requirement

Condition

64b Contractor Project Specific Safety Plans - TMEP Expansion Project, Valemount
Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-004
2020-06-29

Applicable Wording from Legislative Document

Section 3.1 Working at Heights, SWP 011 Ladder

Safety, All workers are to receive training on ladder safety prior to use of any ladder.

Company Action Required

Company shall install an anti-climb barricade to prevent unauthorized/untrained workers from climbing the vertical ladders.

Due Date

2020-07-15

CNC 2 - Propane Vaporizers

Date

2020-07-14

Discipline

Safety Management

Categories

- Workplace Exposures and Protections
 - Electrical Safety

Facility**Observations**

CER inspectors observed that two (2) metal structures securing the two propane vaporizers was not grounded to an earth ground.

Tool Used

Corrected Non-compliance (CNC)

Legislative Requirement

Condition

64b Contractor Project Specific Safety Plans - TMEP Expansion Project, Valemount
Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-004
2020-06-29

Applicable Wording from Legislative Document

3.24 Electrical Safety, Electrical distribution

shall be protected by ground fault interrupters or maintained through an Assured
Grounding Program covering electrical systems and equipment.

Company Action Required

Company shall bond propane vaporizer metal structures to an earth ground as per section 3.24
Electrical Safety, Grounding Program covering electrical systems and equipment.

Due Date

2020-07-15

Company Action Required

Company shall bond metal structure supporting Propane Vaporizers to an earth ground.

Due Date

2020-07-15

CNC 3 - Waste Water Tanks

Date

2020-07-14

Discipline

Safety
Management

Categories

- Workplace Exposures and Protections
 - Electrical Safety

Facility

Observations

CER inspectors observed that steel structure supporting the Waste Water tanks did not appear to have an earth ground.

Tool Used

Corrected Non-compliance (CNC)

Legislative Requirement

Condition

64b Contractor Project Specific Safety Plans - TMEP Expansion Project, Valemount

Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-004
2020-06-29

Applicable Wording from Legislative Document

3.24 Electrical Safety, Electrical distribution
shall be protected by ground fault interrupters or maintained through an Assured
Grounding Program covering electrical systems and equipment.

Company Action Required

Company shall bond Waste Water Tanks metal structure to an earth ground per 3.24 Electrical Safety
Grounding Program covering electrical systems and equipment.

Due Date

2020-07-15

CNC 4 - Portable Light Plant

Date

2020-07-14

Discipline

Safety Management

Categories

- Workplace Exposures and Protections
 - Safeguarding
 - Electrical Safety

Facility

Observations

CER inspectors portable light power plant was not grounded to an earth ground.

Tool Used

Corrected
Non-compliance (CNC)

Legislative Requirement

Condition
64b Contractor Project Specific Safety Plans - TMEP Expansion Project, Valemount
Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-004
2020-06-29

Applicable Wording from Legislative Document

3.24 Electrical Safety, Electrical distribution
shall be protected by ground fault interrupters or maintained through an Assured
Grounding Program covering electrical systems and equipment.

Company Action Required

Company shall bond light plant (generator) to an earth ground.

Due Date

2020-07-15

CNC 5 - Control Zones

Date

2020-07-14

Discipline

Safety Management

Categories

- Workplace Exposures and Protections
 - Safeguarding

Facility

Observations

The Canada Labour Code requires that this information be kept confidential

Tool Used

Corrected Non-compliance (CNC)

Legislative Requirement

Canada

Labour Code (CLC)

Sections Of The Act

Canada Labour Code (CLC)

✓ 124 Every employer shall ensure that the health and safety at work of every person employed by the employer is protected.

125 Specific duties of employer

(1) Without restricting the generality of section 124, every employer shall, in respect of every work place controlled by the employer and, in respect of every work activity carried out by an employee in a work place that is not controlled by the employer, to the extent that the employer controls the activity,

✓ (b) install guards, guard-rails, barricades and fences in accordance with prescribed standards;

Company Action Required

The Canada Labour Code requires that this information be kept confidential

Due Date

2020-07-15

CNC 6 - Wheel Chocks

Date

2020-07-14

Discipline

Safety Management

Categories

- Workplace Exposures and Protections
 - Safeguarding
 - Electrical Safety

Facility

Observations

CER inspectors observed wheel chocks missing from portable light power plant.

Tool Used

Corrected
Non-compliance (CNC)

Legislative Requirement

Condition
64b Contractor Project Specific Safety Plans - TMEP Expansion Project, Valemout Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-004 2020-06-29

Applicable Wording from Legislative Document

On behalf of TransMountain, "ATCO Frontec is committed in implementing Standards that are compliant with provincial and federal legislative standards." TMEP Expansion Project, Valemout Camp Project-Specific Safety Management Plan, ATCO 01-13283-S3-M002-HS-PLN-0004, section 3.19, SWP 004 vehicle safety>unattended vehicles/trailers are to use set of wheel chocks.

Company Action Required

Company shall place wheel chocks on portable light power plant trailer.

Due Date

2020-07-15