

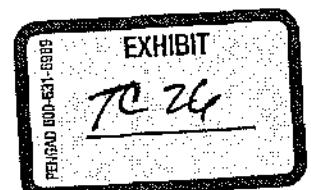
Position Description

Responsibilities:

- Responsible for the safe and efficient monitoring and control of the Keystone Pipeline system
- Daily management and execution of operating plans
- Emergency response and preparedness
- Daily coordination and execution of scheduled maintenance and pipeline outages
- Liaison with Regional operations personnel, interconnecting pipelines and Terminal operators
- Responds to alarms pipeline upsets, alarms and other event handling including document and recording system events
- Analyze system hydraulics and provide recommendations and changes as required resolve customer issues

Qualifications and Competencies Required:

- Ability to create and maintain a positive work environment within a multifunctional team setting
- Ability to work effectively in a highly dynamic environment with changing priorities
- Excellent communication, including proven written, grammatical skills and problem solving skills
- Must constantly strive for personal and operational improvement
- Demonstrated decision making skills
- Demonstrated computer skills, specific to Word and Excel
- Strong analytical and technical abilities
- Ability to multi task with regard to Pipeline system operation
- Sound knowledge of pipeline operations & facilities



Education and Experience:

- Post secondary education and technical training required
- Sound knowledge of pipeline and facilities operation
- Fundamental knowledge of pipeline hydraulics
- Knowledge of ISO 9000 based Quality Management systems an asset
- Consideration will be given to individuals with other combinations of education and technical experience

HAZWOPER Training Requirements Summary

The following provides a brief description of training requirements associated with HAZWOPER training:

Awareness Level

- An understanding of what hazardous substances are, and the risks associated with them in an incident
- An understanding of the potential outcomes associated with an emergency created when hazardous substances are present
- The ability to recognize the presence of hazardous substances in an emergency
- The ability to realize the need for additional resources, and to make appropriate notifications to the communication center

Operations Level

- An understanding of what hazardous substances are and the risks associated with them in an incident.
- Be able to recognize the presence of hazardous substances in an emergency.
- Identification of the hazardous substances, if possible.
- Understand first responder awareness level role in the Emergency Response Plan.
- Understand how to use DOT Emergency Response Guidebook.
- Labelling and Shipping Papers
- MSDS
- Spill Assessment & Site Control
- Decontamination
- Basic Fire Protection

Hazardous Materials Technician

- Implement Employers Emergency Response Plan (ERP)
- Know the classification, identifications and verifications of known and unknown materials by using field survey instruments and equipment.
- Be able to function within an assigned role in the Incident command system
- Selection and use of specialized chemical P.P.E. available
- Understand hazard and risk assessment techniques
- Perform advanced control, containment, and or confinement operations utilizing P.P.E. available.
- Implementation of decontamination procedures
- Understand and implementation of termination procedures
- Understand basic chemical and toxicological terminology and behaviour

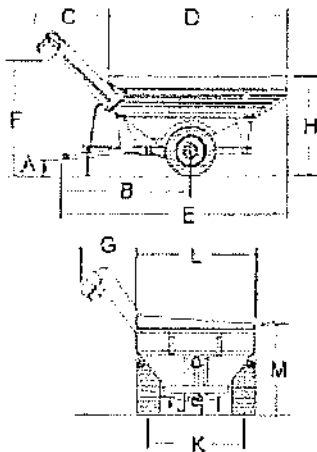
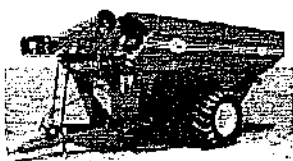
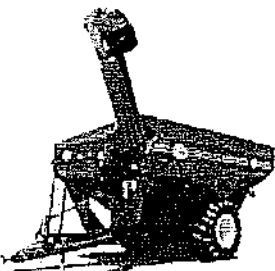
Refresher (Required Annually)

- HAZWOPER 8 hour Refresher training is designed to maintain learned competencies
- On-site Considerations
- Hazardous Materials Identification
- Personal Protective Equipment
- Emergency Response Guidelines
- Use of Monitoring Equipment
- Decontamination

The hazardous liquid pipeline code 49 CFR 195 parts 108 and 110 require that external pressures and external loads are considered in pipeline design. The limits of stresses due to external pressures and stresses are defined in engineering standard ASME B31.4 Transportation of Liquid Hydrocarbons and Other Liquids, Section 402.3, Allowable Stresses and Other Stress Limits. From TransCanada's experience, grain carts crossing pipelines in agricultural fields are the heaviest equipment that the pipeline will experience. It should be noted that agricultural grain carts come in a multitude of capacities with the largest approaching 100,000 pounds. These large carts have varying numbers of axles and wheels as well different sizes of tires to minimize ground pressure to prevent compaction and to prevent the grain carts from getting stuck in agricultural fields.

Typically, ground pressure from the tires on the grain carts is 45 psig or less (regardless of grain cart capacity) which is comparable to a transport truck tire. For purposes of this exhibit, Keystone calculated the stresses that would be created by a fully loaded grain cart of 1,325 bushels #2 corn on a single axle as depicted on the specification sheet below. The total weight of the cart plus the weight of the corn is approximately 90,000 pounds on a single axle. Calculations indicate that this load can cross the Keystone pipeline safely and within the stress limits established by code. It should be noted that grain carts with multiple axles and wheels or on tracks would create less stress in the pipeline.

Specifications 1325-20S Grain Storm Grain Cart



DIMENSIONS:

A	1'-6"
B	21'-10"
C	8'-6"
D	25'-6"
E	34'-5"
F	14'-8"
G	6'-4"
H	12'-2"
I	1'-5"
J	2'-1"
K	9'-6"/10'-0"
L	11'-9"
M	11'-4"

Specifications

Capacity	up to 1325 bushels
Auger, one vertical	20" diameter
Wheels	44x32
Hubs	10 bolt
Spindles	6" diameter
Weight (approx.)	16,100 Lbs
PTO	1,000 RPM (1-3/8" or 1-3/4")
Tire Size	76x50.00

Tongue Weight:

Empty	2,400 Lbs.
Loaded	4,800 Lbs.

Construction:

Hopper	12 GA Steel
Undercarriage	8" x 4" x 1/2" Tubing
Axle	7" x 7" x 1/2" Tubing "V" Truss

Unloading Time 2.6 minutes (approx.)

* Bushel capacity measured with #2 corn at 15% moisture content (56 lb. test weight)

** Time varies with RPM and moisture content of grain

Standard Features and Options