

Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

REVISION HISTORY

Rev No.	Issue Date	Brief Description of the Change
01	2018-10-04	New document



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

OVERVIEW

Emera Brunswick Pipeline Company ("EBPC" or "the Company") is regulated by the National Energy Board of Canada (NEB). The intent of these guidelines (the "Guidelines") is to provide the necessary information to individuals, companies, stakeholders and other entities planning potential construction activities in the EBPC's Brunswick Pipeline prescribed area (see Section 2 of the NEB Pipeline Damage Prevention Regulations – Authorizations (SOR/2016-124) ("Regulations")) for the definition of "prescribed area"). In these Guidelines, the word "pipeline" means the Company's buried facilities and associated surface facilities. Any work (or planned work) in the prescribed area which could interfere with EBPC easement rights or could create safety concerns for EBPC and/or the public is prohibited without an **On-Site Activity Permit** issued by the Company. Please note, these Guidelines are general in nature and any proposed activity by external parties, whether addressed in these Guidelines or not, requires consultation with the Company and its prior written approval.

The general prohibition on activities in and around the pipeline and its ROW is found in Section 112(1) of the NEB Act. Section 112(1) of the NEB Act states:

Prohibition — construction or ground disturbance

112 (1) It is prohibited for any person to construct a facility across, on, along or under a pipeline or engage in an activity that causes a ground disturbance within the prescribed area unless the construction or activity is authorized by the orders or regulations made under subsection (5) and done in accordance with them.

Prohibition — vehicles and mobile equipment

- (2) It is prohibited for any person to operate a vehicle or mobile equipment across a pipeline unless
 - (a) that operation is authorized by the orders or regulations made under subsection (5) and done in accordance with them; or
 - **(b)** the vehicle or mobile equipment is operated within the travelled portion of a highway or public road.

These Guidelines have been developed pursuant to Section 112(1) of the NEB Act as well as to meet the NEB Pipeline Damage Prevention Regulations – Authorizations (SOR/2016-124). Links to NEB resources can be found on the NEB website (www.neb-one.gc.ca).



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

For any questions regarding the information provided in these Guidelines, please contact Brunswick Pipeline:

Emera Brunswick Pipeline Company

1 Germain Street, Suite 1102 Saint John, NB E2L 4V1 Telephone: (506) 693-4214 Fax: (506) 658-0199

Email: brunswickpipeline@emera.com



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

Contents

1	ACTIVITIES REQUIRING AN ON-SITE ACTIVITY PERMIT	5
•	Facility Construction	5
•	Crossing	5
•	Ground Disturbance Activities	5
•	Operation of Vehicles/Mobile Equipment Crossing Brunswick Pipeline	5
2	ON-SITE ACTIVITY PERMIT APPLICATION PROCESS	6
•	Request for a Permit	6
•	Permit Application - Required Information	6
•	Permit Application Assessment	7
i)	Activity Approval	7
ii)	Emergency Activity Approval	7
iii)	Permit Application Rejection	7
3	TECHNICAL GUIDELINES FOR PERMIT ACTIVITIES	8
•	Facility Construction	8
i)	Surface facilities (e.g. buildings, parking lots, monuments)	8
ii)	Excavations (e.g. trenches, foundations, boreholes, open pits)	9
iii)	Subsurface facilities not crossing the pipeline (e.g. cables, utility pipes, tanks)) 11
iv)	Overhead facilities (e.g. powerlines, towers)	.12
v)	Abandonment of facilities	.13
•	Crossing	.13
i)	Surface crossing (e.g. roads, driveways/access roads, sidewalks, railway)	.13
ii)	Subsurface crossing (e.g. cables, utility pipes, transmission/distribution	
	pipelines)	.14
•	Ground Disturbance Activities	.15
i)	Blasting	. 15
ii)	Seismic Activity	.15
•	Operation of Vehicles/Mobile Equipment Crossing Brunswick Pipeline	.16
4	LOCATE REQUESTS	. 17
5	APPENDICES	12



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

1 ACTIVITIES REQUIRING AN ON-SITE ACTIVITY PERMIT

The following activities, if undertaken in the prescribed area, require an On-Site Activity Permit:

• Facility Construction

- Surface facilities (e.g. buildings, parking lots, monuments)
- Excavations (e.g. trenches, foundations, boreholes, open pits)
- Subsurface facilities not crossing the pipeline (e.g. cables, utility pipes, tanks)
- Overhead facilities (e.g. powerlines, towers)
- Abandonment of facilities

Crossing

- Surface crossing (e.g. roads, driveways/access roads, sidewalks, railway)
- Subsurface crossing (e.g. cables, utility pipes, transmission/distribution pipelines)

Ground Disturbance Activities¹

- Blasting
- Seismic Activity

• Operation of Vehicles/Mobile Equipment Crossing Brunswick Pipeline

<u>Note</u>: The activities listed above as requiring a Permit is not a complete list. Any person considering an activity in the prescribed area, whether listed in these Guidelines or not, is required to contact the Company prior to commencing the activity to determine if the activity requires the Company's approval as well as any mitigation measures to protect the public, the environment, the Permit Applicant, and/or the Company's employees and its facilities.

_

¹ Ground disturbance activities within 200 metres of the pipeline, even though outside of the prescribed area, still require an On-Site Activity Permit.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

2 ON-SITE ACTIVITY PERMIT APPLICATION PROCESS

An On-Site Activity Permit is required between the Company and anyone seeking to undertake the activities outlined above in the prescribed area.

The party entering into the On-Site Activity Permit ("Permit Holder") with the Company (and those working for them or on their behalf) shall adhere to the terms and conditions of the Permit, the requirements of these Guidelines and the NEB Regulations.

A minimum of 3 business days' written notification to the Company is required prior to beginning any activities in the prescribed area. The Company requires a minimum of 10 business days' notice for larger construction projects and blasting activities.

Request for a Permit

For larger projects or blasting activities, the request for an On-Site Activity Permit must be made to the Company via email (brunswickpipeline@emera.com; attention: On-Site Activity Permit) a minimum of 10 business days in advance of the planned activity.

For all other activities in the prescribed area, to request an On-Site Activity Permit, the Company must be contacted via the One-Call System (1-888-410-2220 or www.clickbeforeyoudig.com) a minimum of 3 business days in advance of the planned activity.

Regardless of the activity, <u>Locate Requests</u> must be made via the One-Call System (1-888-410-2220 or <u>www.clickbeforeyoudig.com</u>) a minimum of 3 business days in advance of the planned activity. See Section 5 of these Guidelines for more information about Locate Requests.

Permit Application - Required Information

The Company will determine the supporting information required to be submitted for review and approval by the Company in support of Permit Applications. The following is the general information the Company requires at a minimum to be submitted for an On-Site Activity Permit:

- Applicant contact information;
- A detailed scope and description of Applicant's project and associated activities;
- Proposed equipment to be used;
- All design standards mandated by federal, provincial, and/or local government agencies shall be satisfied;
- A letter shall be submitted to the Company stating that all appropriate federal, provincial, and/or local permits, authorizations and/or approvals have been granted or obtained for the subject project;
- Excavation Plan, if applicable; and



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

• Issued for Construction (IFC) Drawings (see Appendix 1 for IFC Drawing requirements).

The Company will not consider incomplete Permit Applications.

Permit Application Assessment

Upon receipt of a Permit Application, the Company will inform the Permit Applicant within ten (10) business days whether or not approval is granted or additional information or time is required to consider the Permit Application. The Company will determine the complexity of the proposed activity, the degree of Company assessment and the level of Company approval required. For example, the Company may require additional information, time, assessment and/or levels of approval for projects that may affect the integrity of the Company's pipeline.

i) Activity Approval

The Permit Applicant, if approval is received, will be required to provide the Company with a duly executed On-Site Activity Permit as provided by the Company. The On-Site Activity Permit outlines the Company's requirements and conditions for the approved activity.

The On-Site Activity Permit must be completed, executed by both parties and returned to the Company prior to initiating any work. A copy of the On-Site Activity Permit must be present on site at all times during construction activities.

Within 45 days of the completion of the activity, the Permit Holder shall provide the Company all as-built drawings of all installations identifying their location in relation to the pipeline.

ii) Emergency Activity Approval

In the case of emergency repairs to critical public infrastructure or for public safety, where it is not practicable to provide the standard 3 business days' notice, the Applicant is still required to contact the Company via the One-Call System (1-888-410-2220 or www.clickbeforeyoudig.com) and obtain an On-Site Activity Permit.

iii) Permit Application Rejection

If the Permit Application is refused, the unsuccessful Permit Applicant will be provided with the reasons for refusal. The unsuccessful Permit Applicant has the right to contact the NEB to review the request as provided by the NEB Act, Section 112.

PUBLIC



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

3 TECHNICAL GUIDELINES FOR PERMIT ACTIVITIES

- Facility Construction
 - i) Surface facilities (e.g. buildings, parking lots, monuments)

(1) Fencing

Any fences are to cross the pipeline ROW at or near as possible to right angles. Fencing must be easily removed and replaced, if necessary, and contain a 3.7-metre (12-foot) wide gate for access at each location where the fence intersects the ROW. This would include fencing of any type or kind including, but not limited to, wire type, chain-link, snow-fencing, PVC, wood, stockade, and decorative type fencing.

The location of fence posts in the prescribed area shall be approved by the Company. The Company will not allow any type of fence to be erected parallel to the Company's pipeline within the pipeline ROW.

(2) New Facilities within the prescribed area but not crossing the Company's pipeline

Test pits may be required, at the discretion of the Company, in areas where equipment/vehicle crossings and/or Permit Applicant facility crossings are proposed.

Based on assessments undertaken by the Company at the Permit Holder's expense, if the Company deems that the installation of easing pipe and/or other alterations are necessary to protect the pipeline, the Permit Holder shall be required to pay to the Company the estimated cost of such alterations prior to the Company beginning the work. At the completion of the work and when the actual costs have been incurred and tabulated by the Company, any additional costs incurred above the estimate shall be paid by the Permit Holder to the Company and any savings shall be remitted to the Permit Holder.

The Company will furnish applicable as-built pipeline location information upon request by the Permit Applicant seeking to construct facilities within the prescribed area of the Company's pipeline. In this context "facilities" means, without limitation, any utilities, buildings, fencing, structures (permanent or temporary) or other obstructions (including trees, shrubs, bushes, plants and landscaping) proposed to be erected or placed within, above or below the prescribed area.

(3) Landscaping

The only circumstance where the Company will allow the planting of trees on the pipeline ROW is if it has been negotiated and defined in a landowner Letter of Commitments. It is the Permit Holder's responsibility to maintain trees adjacent to the ROW to eliminate



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

obstruction of the ROW visibility from ground or air, however, the Company reserves the right to prune or cut trees that overhang the Company's ROW.

Planting of shrubs, bushes or other plants on the Company's ROW is subject to the Company's prior written approval.

Landscaping grades and drainage swales will comply with the following requirements:

- No drainage swales or reduction in grade will be allowed on the Company's ROW.
 With prior written approval from the Company, predetermined and approved limited additional fill over the existing grade may be deposited on the ROW.
- Proposed landscaping grades will not exceed the Company's maximum allowable slope of 4:1 longitudinal with the pipeline and/or 8:1 cross slope, and have a minimum coverage as per the most recent version of CSA Z662 - Oil and Gas Pipeline Systems. The maximum cover will be determined by the Company, taking into account pipeline specifications and local conditions.
- Proposed grades will not cause the ponding of surface water, or redirect the flow of water or generate any amount of erosion on or near the Company's ROW. The Permit Holder may be required to install erosion and control measures upstream to limit the amount of surface runoff across the ROW.
- Company access to the pipeline ROW shall not be restricted by the proposed grades.
- The Company reserves the right at any time, without notice or approval, to modify all cover/grade requirements.

ii) Excavations (e.g. trenches, foundations, boreholes, open pits)

Excavation operations shall be performed in accordance with the Guidelines set forth below.

No excavation, crossing, backfilling or construction operations in the prescribed area of the Company's pipeline shall be performed unless the authorized Company representative is on site. The Company representative shall have the authority to stop work or an activity at any time should the Company representative deem the work or activity unsafe or a danger to the public, the environment, the Permit Holder, the Company's employees and/or its facilities.

Test pits within the prescribed area employing mechanical excavation can be scheduled during the period of April 15-November 01 by contacting the Company at least 10 business days in advance and submitting at that time an Excavation Plan (as described in this Section below). Excavation of test pits may be performed provided a Company representative is present. The Company will make reasonable efforts to accommodate the requested schedule but such scheduling will be subject to, among other things, availability



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

of appropriate Company personnel as determined by the Company, weather, or field operating conditions.

Excavation of test pits within the prescribed area by means of mechanical equipment is not allowed during the period of November 01-April 15. During this time period, pipeline elevations may be obtained with the Company's consent, depending on field conditions, by hand digging or soft digging equipment. The Company must be contacted at least 10 business days in advance to coordinate these activities, and an Excavation Plan must be submitted (as described below) at that time.

Once an Excavation Plan has been reviewed and approved by the Company, excavation may proceed in accordance with the approved Plan. The Excavation Plan shall be a written document approved by the authorized Company representative. When developing an Excavation Plan, the following should be considered as well as any other relevant considerations:

- Backhoe/excavator set-up position in relationship to the pipeline;
- Need for benching to level backhoe;
- Required excavation depth and length;
- Sloping and shoring requirements;
- Ingress/egress ramp locations;
- Minimum clearance requirements for mechanical equipment;
- Pipeline location and depth;
- Verify bar has been welded onto backhoe teeth and side cutters have been removed;
- Spoil pile location; and
- Compliance with Canada Occupational Health and Safety regulations.

The authorized Company representative will direct the use of mechanical equipment within the NEB prescribed area associated with the Company's facilities (see Section 2 of the Regulations for the definition of "prescribed area"). Excavations by third party personnel using mechanical equipment will comply with the Company's tolerance zone of 5 metres until the pipeline is visually located. Once the pipeline is visually located, hand tools or soft dig equipment shall be used to complete the final excavation of the pipeline inside the 5 metre "restricted" mechanical equipment limits of the excavation.

In the case of a trenchless excavation method within the NEB prescribed area, a plan shall be submitted to the Company for its approval that indicates the minimum radial clearance required by applicable standards between the new facility and the Company's pipeline(s). Note: This clause refers to trenchless excavation within the 30-metre NEB prescribed area only; crossing the pipeline requires further approvals.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

In the case the Company's pipeline is exposed, the Company will be complying with Federal regulations that require the pipeline to be inspected by the Company. In order to ensure the safety of the authorized Company's representative and others in the field, Canada Occupational Health and Safety regulations that pertain to excavations must be adhered to. A minimum 24-hour written notice to the Company is required to perform the relevant inspections prior to proceeding with backfill operations.

Permit Holder Excavation & Backfill Activities:

- Bucket teeth shall be barred and side cutters removed.
- The excavator shall be positioned parallel to the Company's pipeline to safely excavate near the pipeline.
- A line locator and/or probe bar shall be used to maintain the minimum 5-metre clearance to the pipeline.
- Soft digging equipment shall be required at the Permit Holder's expense for excavating within 5 metres of the Company's pipeline.
- The Permit Holder shall continue to locate the pipe using industry best practices (such as line locator, daylighting, or probe bar) during the excavation process to ensure no unidentified works or infrastructure is damaged until the final ditch grade is achieved.
- A minimum 24 hours' written notice shall be provided to the Company in order to allow the authorized Company representative to perform relevant inspections prior to proceeding with backfill operations.
- A Company representative is available during normal business hours (Monday to Friday, excluding holidays, 8:30 am- 4:30 pm AT). Permit Holder bears all costs and expenses (as determined by the Company) for the supply of a Company representative outside normal business hours.

iii) Subsurface facilities not crossing the pipeline (e.g. cables, utility pipes, tanks)

All buried facilities shall be installed as per the appropriate typical crossing drawing as listed in Appendix 2 and in accordance with the process and procedures set out below.

To the fullest extent possible, all foreign lines, roads, electrical cables and other utilities shall cross the Company's pipeline right-of-way at an angle at or near right angles.

Buried facilities shall be installed below the Company's pipeline. The Company requires a minimum clearance as indicated in the appropriate typical crossing drawing. This clearance may need to be increased in some circumstances, as determined by the Company in its discretion.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

The Company will not be responsible for any loss, damage or required repairs to a Permit Holder's facilities which are caused by the Company's operating and maintenance activities (or otherwise). All such loss, damage and repairs shall be at the sole risk, cost and expense of the Permit Holder.

Acceptable backfill must be free of rocks, organic material, impacted soils, refuse and any foreign material. Acceptable backfill will be placed between the Permit Holder's facility and the Company's pipeline

Installation of fiber optic cables upon the Company's pipeline prescribed area will be considered by the Company on a case-by-case basis and will be subject to the On-Site Activity Permit terms as specified by the Company.

Installation of all electrical cables within the Company's prescribed area will require the Permit Applicant to provide the information listed below to the Company for its review and approval prior to any such installation:

- Number, spacing and voltage of cables
- · Line loading and phase relationship of cables
- Grounding system
- Position of cables and load facilities relative to pipeline

Specific installation requirements for cables carrying less than 600 volts shall be determined by the Company on a case-by-case basis.

Installation of buried electrical cables carrying 600 volts or more upon the Company's pipeline prescribed area will be considered by the Company on a case-by-case basis and will be subject to the On-Site Activity Permit terms as specified by the Company.

The Company's pipeline is designed with a cathodic protection system which includes AC mitigation. Any crossing will require an assessment of this system at the cost, risk and responsibility of the Permit Applicant. Any additions or modifications that result from the assessment to the Company's system will be the responsibility of the Permit Holder.

For metallic line installations two No. 10 THWN black insulated copper wires for the use of test leads will be installed and attached at the point of crossing for corrosion control monitoring at the discretion of the authorized Company representative. The test wires will be routed underground and terminated at a point specified by the Company.

iv) Overhead facilities (e.g. powerlines, towers)

Overhead power lines, telephone lines and telecommunication installations shall be reviewed by the Company on a case-by-case basis using the following assessment criteria:



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

The Permit Applicant shall be responsible to provide a mitigation design in accordance with CSA Standard C22.3 No 6M (most recent version or its replacement), "Principles and Practices of Electrical Coordination Between Pipelines and Electric Supply Lines" whenever there is a determination of electrical interference between its facilities and the Company's pipeline. This solution will be presented prior to construction, if applicable.

The vertical distance between the lowest wire of an overhead line catenary and the surface of the ground within the pipeline easement shall not be less than the minimum vertical clearance distance set out in that part of the Canadian Electrical Code Part III (CSA Standard C22.3, "Overhead Systems and Underground Systems").

Overhead lines shall be installed with the minimum clearance as required by CSA and other local/provincial regulations above the grade of the Company's pipeline right-of-way. The installation of poles and support wires will not be permitted on the Company's pipeline ROW.

The Permit Holder, where directed by the Company, shall install aerial warning devices on an overhead line for the protection of the Company's personnel and equipment conducting aerial patrols.

Crossing of the Company's surface facilities with power lines will not be permitted.

v) Abandonment of facilities

When abandoning facilities within the prescribed area of the Company's pipeline, a separate On-Site Activity Permit is required.

The abandonment (including means and methods) of existing facilities must be approved by the Company. As a precondition to obtaining the Company's approval for the abandonment of existing facilities, all federal, provincial, and/or local government laws, regulations, by-laws, permits, authorizations, rules, procedures and mandated requirements must be obtained and adhered to by the Permit Holder.

Once all applicable federal, provincial, and/or local permits, authorizations and/or approvals are granted, a letter certifying same shall be submitted to the Company by the Permit Holder prior to the commencement of any facility abandonment activities.

- Crossing
 - i) Surface crossing (e.g. roads, driveways/access roads, sidewalks, railway)

Access Road



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

Typical drawings for Private Access Roads or Temporary Access Roads will be made available by the Company to the Permit Applicant upon request. A list of the typical drawings is found in Appendix 2.

Maximum and minimum depths of cover for all areas of equipment/vehicular travel (e.g., highways, roads, railroads, construction access, driveways, parking lots, etc.) will be determined by the Company and local, provincial, and federal requirements. For this purpose, cover can be defined as the distance from the top of the pipe to the finished grade. Mitigative methods where the cover is insufficient will be determined on a case-by-case basis by the Company.

Test pits may be required, at the discretion of the Company, in areas where equipment/vehicle crossings and/or Permit Applicant facility crossings are proposed.

When planning parking areas, the pipeline ROW location is to be taken into account so as to avoid covering the ROW.

ii) Subsurface crossing (e.g. cables, utility pipes, transmission/distribution pipelines)

Installation of fiber optic cables upon the Company's pipeline prescribed area will be considered by the Company on a case-by-case basis and will be subject to the On-Site Activity Permit terms as specified by the Company.

Installation of all electrical cables within the Company's prescribed area will require the Permit Applicant to provide the information listed below to the Company for its review and approval prior to any such installation:

- Number, spacing and voltage of cables
- Line loading and phase relationship of cables
- Grounding system
- Position of cables and load facilities relative to pipeline

Specific installation requirements for cables carrying less than 600 volts shall be determined by the Company on a case-by-case basis.

Installation of buried electrical cables carrying 600 volts or more upon the Company's pipeline prescribed area will be considered by the Company on a case-by-case basis and will be subject to the On-Site Activity Permit terms as specified by the Company.

The Company's pipeline is designed with a cathodic protection system which includes AC mitigation. Any crossing will require an assessment of this system at the cost, risk and responsibility of the Permit Applicant. Any additions or modifications that result from the assessment to the Company's system will be the responsibility of the Permit Holder.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

For metallic line installations two No. 10 THWN black insulated copper wires for the use of test leads will be installed and attached at the point of crossing for corrosion control monitoring at the discretion of the authorized Company representative. The test wires will be routed underground and terminated at a point specified by the Company.

Ground Disturbance Activities

Any ground disturbance activity within the prescribed area shall not be performed unless the authorized Company representative is on site. The Company representative shall have the authority to stop work or an activity at any time should it deem the work or activity unsafe or a danger to the public, the environment, the Permit Holder, and/or the Company's employees and/or its facilities.

i) Blasting

Ground disturbance activities within 200 metres of the pipeline, even though outside of the prescribed area, still require an On-Site Activity Permit.

Blasting operations, in addition to applicable federal, provincial and local laws, regulations, by-laws and codes, shall comply with the guidelines set forth below.

Under no circumstances shall blasting occur within the Company's pipeline ROW, and no blasting shall occur outside the Company's pipeline right-of-way if the Company determines that such blasting may be detrimental to its facilities. For any blasting proposed within 200 m (656 ft) of the pipeline ROW, the Company shall be advised in writing 90 calendar days prior to commencement of the blasting. A Blasting Proposal outlining the scope and location of work must accompany the notice.

The Company requires all applicable blasting codes, by-laws, regulations and laws to be strictly followed in all cases. In addition, the Company reserves the right to require the Permit Applicant who will be undertaking blasting activity to furnish a certified Blasting Plan (including estimated peak particle velocities at the closest pipeline location and a proposed monitoring plan), incorporating the Company's requirements based on the Blasting Proposal, a minimum of ten (10) business days prior to the commencement of blasting work. This shall provide the Company time to evaluate and to arrange for a Company representative to witness the blasting operation, including blast-hole drilling and loading activities.

The Company will require blast reports, including monitoring, within 24 hours of a blast for review.

ii) Seismic Activity

The Company's written permission is required prior to commencing seismic activity within 60 metres of the Company's pipeline ROW.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

Operation of Vehicles/Mobile Equipment Crossing Brunswick Pipeline

Temporary vehicle or mobile equipment crossings at any location along the pipeline shall be performed in accordance with the guidelines set forth below:

For the purposes of paragraph 112(2)(a) of the *NEB Act*, the operation of a vehicle or mobile equipment across a pipeline is authorized if the person that intends to operate the vehicle or mobile equipment across the pipeline obtains the Company's prior written consent.

For the purposes of paragraph 112(2)(a) of the *NEB Act*, the operation across the pipeline of a vehicle or mobile equipment that is used to perform an agricultural activity is authorized if the following conditions are met:

- (a) the loaded axle weight and tire pressures of the vehicle or mobile equipment are within the manufacturer's approved limits and operating guidelines; and
- (b) the point of crossing has not been the subject of a notification under the NEB *Pipeline Damage Prevention Regulations Authorizations (SOR/2016-124)*.

Temporary bridging such as, but not limited to, additional cover, construction mats, or temporary structural spans shall be installed for the protection of the Company pipeline at any point of construction equipment crossing, unless approval to cross without protection is specifically granted in writing by the Company.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

4 LOCATE REQUESTS

All pipelines must be located using either Call Before You Dig: 1-888-410-2220 or Click Before You Dig: www.clickbeforeyoudig.com.

The Company will provide field locate services and mark its pipeline(s) at selected points in accordance with federal, provincial and local requirements.

If the Company representative requires the pipeline be located by excavation, the cost to excavate the pipeline and restore surface improvements (e.g., pavement, landscaping, and sidewalks) shall be the responsibility of the Permit Holder. Note: A Company representative must be present during any excavation to expose the pipeline. During this period, accurate survey data of the Company's pipeline(s) shall be obtained by a qualified surveyor/engineer provided by and for the account of the Permit Holder. The surveyor shall prepare the plans, sections, and profile drawings and the Company shall be provided with a copy of the completed plans and drawings. All survey data shall be referenced to the New Brunswick High Precision Network (NBHPN) with coordinates referenced to NB Stereographic Projection and vertical datum using geoid model Ht1 01.

In addition to complying with the above requirements, Permit Holders shall comply with the provisions of all federal, provincial and/or local laws, regulations, by-laws and permits relating to excavation and demolition work in the vicinity of underground facilities, including, but not limited to, the local one-call regulations and procedures.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

5 APPENDICES

Appendix 1

Drawing Requirements

Issued for Construction Drawings

In order to maintain accurate records of the Brunswick Pipeline System, when applicable, the Permit Applicant is required to submit 'Issued for Construction' (IFC) drawings as part of the Permit Application that identifies all modifications and activity that could affect the pipeline. As a minimum, the Permit Applicant will be required to submit the following drawings:

Plan view with scale indicated

- clearly defines all details of the Applicant's facility;
- Accuracy to one tenth (0.1) metre or better;
- Facilities which tie dimensions to lot or survey line. Show location of Company's pipeline(s), pipeline appurtenances, markers, cathodic test facilities and right-ofway and other utilities and utility easements;
- Proposed activities (measured to the Company's pipeline easement);
- Temporary facilities used for construction purposes (examples: parking lots, storage yards, staging areas, laydown areas, etc.).

Profile/Cross Section view(s) with scales indicated

- Section view(s) along the proposed facilities that crosses the Company's pipeline or within the prescribed area.
- Depth of the Company's pipeline;
- · Company pipeline right-of-way limits;
- Vertical distance of the proposed utility below grade;
- Existing and proposed grades, with reference point;
- Clearance to the Company's pipeline(s);
- Identify and state diameter of each underground facility;
- Identify coordinate system;
- Indicate vertical datum.

Notes

- All specifications for all of the proposed Applicant's facilities;
- Note referencing compliance with all applicable CSA standards and the National Energy Board Pipeline Crossing Regulations;
- Include a North Arrow and Scale on all drawings;
- Legal description of location of the Applicant's facility on all drawings (i.e. PID, parish, town, village, etc.);



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

- Name of the Applicant and the name of the engineering company who compiled the drawing (where applicable);
- Drawing number and the date of the drawing;
- Date and method of the survey;
- Signature of the Applicant and the engineering company;

Change orders

During the course of the work, any change orders that impact the Company approved IFC scope and/or drawings will require review and approval from the Company.

As-Built Drawings

As a minimum, all information listed in regards to Issue for Construction drawings is required to be submitted in an As-Build state within 45 days of the project completion. Asbuild drawings submission must include:

- one (1) paper copy;
- one (1) PDF copy; and
- a digital AutoCAD file using the latest edition.

NOTE: The Permit Holder drawing(s) must be available to on site Company representative for reference during construction.



Doc No.	DPP-PDR-03
Rev Status	01
Issue Date	2018-10-04

Appendix 2

Typical Crossing Drawings

The Company has generated typical drawings, which are available upon request, as reference for the following common activities:

- Typical Road Crossing
- Typical Overhead Power Crossing
- Typical Pipeline / Cable Crossing
- Typical Access Road Timber Crossing