



August 15, 2018

The crossing application submitted by Davis Utility Consulting was received on August 14, 2018. Loudoun County Board of Supervisors plans to install multiple conduits for park lighting and scoreboards near Dulles, VA. The plans dated April 9, 2018 have been reviewed. By comparison to our operating maps and records, it is evident that TransCanada (Columbia Pipeline Group), referred to as CPG in this document, has facilities located within the limits of and impacted by the proposed construction. *Please Note: Involvement status relates solely to facilities owned and/or operated by TransCanada (Columbia Pipeline Group).*

Work within the CPG's right-of-way will be performed in accordance with CPG procedures to protect the safety of CPG's facilities. The following guidelines, although not inclusive, are provided to accommodate your request and protect our pipelines and facilities:

1. Follow all applicable federal and state safety requirements at all times.
2. Before any preliminary field work or construction begins in the vicinity of CPG pipeline facilities the approximate location and elevation of the pipeline shall be made. Begin with a call to 811 or appropriate state "One Call" notification number. Request both the approximate location and depth of the pipeline to be determined in any area of proposed construction. The area of proposed construction shall be marked with white paint, flags, or as required by state law.
3. When conducting construction activities in or around CPG pipeline facilities or rights-of-way, a CPG on-site Company Representative shall be present unless otherwise permitted by CPG. A CPG Representative will review the location of pipeline facilities prior to starting work.
4. Permittee shall notify the responsible State "One Call" center to request that CPG re-mark a pipeline if the existing markers are inadequate or no longer visible for any reason, including disturbance due to construction activities.
5. Permittee shall not burn or bury trash, brush, or other items or substances within CPG pipeline rights-of-way.
6. Permittee shall not park equipment or store materials on the CPG right-of-way.
7. Use of vibratory equipment larger than walk-behind units shall not be permitted within twenty-five (25) feet of the pipeline or related facility.

8. The Permittee shall mark any excavation area with white paint, flags, or as required by state law that the Permittee has proposed within CPG rights-of-way.
9. Before excavation can begin near a CPG right-of-way, the excavation area must be located and marked in according to the appropriate state one call regulation. Safe digging is no accident. Know what's below. Call 811 before you dig. CPG or its representative shall locate the pipeline and determine the approximate depth of cover before the Permittee can begin excavation.
10. CPG shall have a Company representative present during all excavation activities. The Company representative shall have full authority to stop the work if it is determined that the work is being performed in an unsafe manner relative to CPG facilities or personnel.
11. No equipment shall work directly over the pipeline, unless CPG grants specific written permission. The Permittee shall install temporary fencing along the CPG right-of-way boundaries so equipment shall not inadvertently pass over the pipeline at locations other than those established for the crossing.
12. When excavating within a CPG right-of-way, in the presence of a loaded pipeline, the Permittee's excavation equipment shall have a plate welded or attached over the teeth of the excavator bucket.
13. No side cutters shall be used during excavation.
14. CPG requires potholing techniques to be used when digging within twenty-four (24) inches of the outer edge of the pipe, unless requirements that are more stringent are set forth by the applicable state's One Call system. Within this "tolerance zone" only hand excavation, air cutting, vacuum excavation or other CPG approved techniques are permitted.
15. No excavation shall be made on land adjacent to the pipeline that shall in any way impair, withdraw lateral support, cause subsidence, create the accumulation of water, or cause damage to the pipeline or right-of-way.
16. The Permittee shall ensure all excavation work complies with OSHA's excavation standards outlined in 29 CFR 1926 and correct any noncompliant excavation site before work within CPG right-of-way continues.
17. At any location where the pipeline is exposed, the Permittee shall provide CPG the opportunity to inspect the pipeline condition, install cathodic protection equipment, repair any pipe coating imperfections, and/or install underground warning materials.
18. No CPG buried pipeline shall be left exposed for any duration of time, unless otherwise permitted by CPG.

19. Backfill and compaction shall be performed to the satisfaction and in the presence of a Company representative. At least 6 inches of fine, loose earth or other permitted backfill material with no sharp gravel, rock, hard clods, vegetation, or other debris shall be added on all sides of any pipeline, and remaining backfill shall be placed so as not to disturb this padding material or damage the pipeline and its coating. Backfill over the pipe shall be compacted by hand until eighteen (18) inches of cover is achieved.
20. Disturbed ground shall be compacted to at least the same degree of compaction as surrounding areas.
21. The Permittee shall restore the site to its original condition unless otherwise permitted by CPG.
22. The utility shall cross the CPG right-of-way as near ninety (90) degrees as possible, but no less than forty-five (45) degrees.
23. Utilities shall not be installed longitudinally within the right-of-way.
24. Utilities shall cross beneath the pipeline with a minimum vertical clearance of twenty-four (24) inches.
25. Warning tape, in accordance with A.P.W.A. Uniform Color Code, shall be placed above the utility, twelve (12) inches below ground, across the CPG right-of-way.
26. Underground utility crossings shall be marked with proper signage at the edge of the CPG right-of-way boundaries.
27. Electric conduits crossing below CPG pipelines shall be encased with a minimum four (4) inch minimum diameter, standard inch wall thickness, coated steel pipe across the full width of the CPG right-of-way.
28. Utilities shall be coated with a non-conductive coating for the entire width of the CPG right-of-way.
29. Notice of at least seventy-two (72) hours in advance of construction must be provided. Loudoun County Board of Supervisors must contact the following TransCanada field representatives:
 - a. Name: John Jackson Cell: (703) 727-0253
30. No part of powered equipment shall come within three (3) feet of CPG's pipelines, or according to applicable State or Federal requirements.
31. No bucket, any attachment or load may be swung over CPG's pipeline(s) where there is less than twenty-four (24) inches of cover.

32. Loudoun County Board of Supervisors, will be crossing one or more of CPG's transmission pipeline(s). These pipeline(s) are coated with a material to protect them from corrosion. The coating may contain asbestos. If the excavation results in exposing CPG's pipeline(s) and there is any damage to the coating, you will be responsible for all costs, including any disposal costs, associated with the coating repair. If necessary, you will also be required, to halt all work activity while the coating material is being analyzed. The coating repair, including the removal of the original material, will be performed by CPG personnel or a qualified third-party contractor selected by CPG. All work will be done in accordance with CPG's current engineering and environmental standards. During the course of the excavation work, Contractor agrees to cooperate with CPG to insure all federal, state and local environmental and safety regulations are followed.
33. A Heavy Equipment Crossing Information Form shall be submitted for all equipment that will operate within the CPG right-of-way. No equipment will be permitted within the CPG right-of-way without prior approval from CPG.
34. Equipment shall only operate within CPG right-of-way at pre-selected sites. Random crossings are not permitted.
35. Should it be necessary for a CPG employee/representative to enter the excavation to inspect its pipeline(s), the excavation at the crossing shall be sloped, permitted safe with trench boxes, or shored in accordance with the requirements of the Occupational Safety and Health Administration.

Respectfully Submitted,



Jeremy Jerden, EIT
Engineer
Pipeline Integrity Data Engineering
TransCanada US Gas Operations East
1700 MacCorkle Ave. SE
Charleston, WV 25314
Tel: 304-357-3015 | Cell: 304-410-8662
jeremy_jerden@transcanada.com