NOTICE OF PROBABLE VIOLATION
and
PROPOSED COMPLIANCE ORDER

OVERNIGHT EXPRESS DELIVERY

September 21, 2016

Mr. Brian Sheppard
VP, Pipeline Operations
Dominion Transmission, Inc.
925 White Oaks Blvd
Bridgeport, WV 26330

Dear Mr. Sheppard:


As a result of the inspection, it appears that you have committed a probable violation of the Pipeline Safety Regulations, Title 49, Code of Federal Regulations. The item inspected and the probable violation is:

1. §195.402 Procedural manual for operations, maintenance, and emergencies.

   (a) General. Each operator shall prepare and follow for each pipeline system a manual of written procedures for conducting normal operations and maintenance activities and handling abnormal operations and emergencies 

DTI's procedures did not include sufficient guidance for operating, maintaining, testing, record keeping, and dispatcher training of the system, as required by §195.444, CPM leak detection, which states:

"Each computational pipeline monitoring (CPM) leak detection system installed on a hazardous liquid pipeline transporting liquid in single phase (without gas in the liquid) must comply with
API RP 1130 (incorporated by reference, see §195.3) in operating, maintaining, testing, record
keeping, and dispatcher training of the system."

Specifically, DTI failed to include the requirements of API RP 1130 Sections 6.2, 6.3, 6.4 and
6.5, Incorporated by Reference, in the procedures for its CPM system that became operational in
May 2008.

During the inspection, the PHMSA inspector reviewed the following documents provided by
DTI:

1. US-1406_Dominion-01-SAT-001 Rev 1 dated 20080114
2. G-136 Leak Detection Procedure- undated
3. ATMOS Operator Training- undated
4. ATMOS G136 Operation Manual V1.0 dated 20080108
5. US-1406_Dominion_01-FDS-001 Rev 1.0 dated 20070828
7. Procedure - NGL Operations

None of the documents provided by DTI provided guidance required by API RP 1130. Details
of the procedural deficiencies noted by PHMSA are provided below.

1. API RP 1130, Section 6.2 System Testing states in part that:

   "Testing of CPM systems is performed . . . when there are changes to the CPM or the
pipeline system that warrant re-evaluation of system performance, or for periodic
evaluation of actual system performance.

   The purpose of testing is to assure that the CPM system will alarm if a
commodity release occurs. Another purpose of testing may be to assure that data failure
alarms and irregular operator condition alarms function as expected. The test that
follows will not discuss CPM testing for other than commodity release alarms.

   Prior to testing careful planning should be considered as to the reasons for the test and
methods that will be employed and the process and procedures that will be followed. The
test should be well managed to make sure it achieves the desired results.

   Consideration should be given to the potential for a reduced level of pipeline monitoring
during a CPM system test. The Pipeline Controllers should be alert to the possibility of
an actual commodity release that could occur simultaneously with the CPM system test
and that an actual commodity release may be disguised or misdiagnosed during the test
interval."

During the inspection, DTI stated that:

a. It performed an annual test on the system, flaring liquid propane from the pipeline to
simulate a leak.

b. It would then verify the alarm response time with the system specifications and
distance of the “failure” from Hastings to determine the system performance.

c. It elects to do an annual leak test.
d. The annual testing had been conducted similar to the Site Acceptance Test, performed by ATMOS in 2008. ATMOS repeated those tests in 2014.

In an email from DTI to PHMSA dated 5/14/2015, DTI responded to PHMSA’s questions related to DTI’s procedures for testing the CPM system as follows:

“... A procedure was not located for the annual leak test. Since the audit, a procedure has been developed for the annual leak test. This procedure has been attached.”

DTI’s procedures did not include guidance for meeting the requirements of API RP 1130, Section 6.2.

2. API RP 1130 Section 6.2.3 Periodic Retesting states in part that:

*CPM retesting of applications will be necessary on a periodic basis to meet regulations or to confirm the continued effectiveness of the CPM. Retesting will be documented in test records. CPM applications should be tested on a 5-year interval to confirm the CPM system’s continued effectiveness. More frequent testing should be done if there is a change in regulations that require retesting.*

DTI’s procedures did not include guidance on how the requirements of API RP 1130 Section 6.2.3 are met.

3. API RP 1130 Section 6.2.4 Change-driven Testing states in part that:

*CPM systems should be retested following significant changes to ensure that the performance of the CPM system is not impacted.*

*Examples of significant changes could include, but are not limited to:*

— Major pipeline or software configuration changes or addition of features.
— Abnormal pipeline operating conditions.
— New versions of the CPM software.
— Instrument and measurement additions or changes.
— SCADA system updates.

DTI’s procedures did not include guidance for meeting the requirements of API RP 1130, Section 6.2.4.

4. API RP 1130 Section 6.2.6 Test Records states in part that:

*Records detailing the reasons for the tests, the test parameters and methodology and the test results should be recorded and retained for initial tests and for retests. These details of at least two previous tests should be retained.*

DTI’s procedures did not include the requirements of API RP 1130, Section 6.2.5.

5. API RP 1130 Section 6.3.2 Parameter Changes states in part that:

*Provisions should be made against any alarm, parameter, and or sensor being inhibited without just cause.*

DTI’s procedures did not include guidance for meeting the requirements of API RP 1130, Section 6.3.2.

6. API RP 1130 Section 6.3.3 Pipeline System Maintenance Activities states in part that:
The Pipeline Controller should be informed or have an indication whenever a CPM system sensor is inhibited and or disabled which causes the system to operate in a degraded mode.

Provisions should be made to minimize the effect of maintenance on the performance of the CPM system during periods of hardware, software and field equipment maintenance and system upgrades.

System maintenance should be performed under the control of maintenance procedures, which address the effect of field and system maintenance on CPM performance.

DTI’s procedures did not include guidance for meeting the requirements of API RP 1130, Section 6.3.3.

7. **API RP 1130 Section 6.4 - CPM System Data Retention** - states in part that:

   The retention of data and reports from a CPM system may be governed by several factors including the requirements of regulations, company policy, engineering and operations requirements and the Pipeline Controller training requirements.

   DTI’s procedures did not include guidance for meeting the requirements of API RP 1130, Section 6.4.

8. **API RP 1130 Section 6.5 - Pipeline Controller Training and Retraining** states in part that:

   “The users of the CPM system (i.e. the Pipeline Controllers) and any CPM support staff require appropriate CPM training. ... Specific training and reference material is necessary to prepare the Pipeline Controller to adequately recognize and respond to these alarms. This requires both a knowledgeable perspective on the alarms themselves as well as the nature of the alarms. The American Petroleum Institute has created a publication (API Publ 1161) for Controller Training that considers many important related training issues outside the scope of this recommended practice.

In an email dated 2/16/2016, DTI stated in part that:

“The material that was covered in the initial training is not documented. Please see the initial January 2008 Leak Detection Document Revision/Awareness Training, attached, for the addition of the leak detection system. The January 2008 Leak Detection Document Revision/Awareness Training notes a document revision to the Product Pipeline Unit Propane Pipeline System Normal Operation procedure, attached, and awareness training. This would indicate that there was initial training. In addition, the annual leak detection inspection (which is inspected at an increased inspection rate than the five (5) year suggested interval in API RP 1130 section 6.2.3) would be considered continued training since controllers are interacting with the ATMOS system during this testing and would observe the alarms indicating Bbl/Hr leak rate and the distance to the leak.

The controllers are able and instructed to shut down the pipeline and alert the Shift Supervisor to begin response actions, if a leak is suspected due to a leak alarm provided by the ATMOS Leak Detection system. No additional training is required for this reaction.”

None of the information described by DTI above is documented in a DTI procedure.
DTI's procedures did not include guidance for meeting the requirements of API RP 1130, Section 6.5.

Proposed Compliance Order

Under 49 United States Code, § 60122, you are subject to a civil penalty not to exceed $200,000 per violation per day the violation persists up to a maximum of $2,000,000 for a related series of violations. For violations occurring prior to January 4, 2012, the maximum penalty may not exceed $100,000 per violation per day, with a maximum penalty not to exceed $1,000,000 for a related series of violations. We have reviewed the circumstances and supporting documents involved in this case, and have decided not to propose a civil penalty assessment at this time.

With respect to item number 1, pursuant to 49 United States Code § 60118, the Pipeline and Hazardous Materials Safety Administration proposes to issue a Compliance Order to Dominion Transmission, Inc. Please refer to the Proposed Compliance Order, which is enclosed and made a part of this Notice.

Response to this Notice

Enclosed as part of this Notice is a document entitled Response Options for Pipeline Operators in Compliance Proceedings. Please refer to this document and note the response options. Be advised that all material you submit in response to this enforcement action is subject to being made publicly available. If you believe that any portion of your responsive material qualifies for confidential treatment under 5 U.S.C. 552(b), along with the complete original document you must provide a second copy of the document with the portions you believe qualify for confidential treatment redacted and an explanation of why you believe the redacted information qualifies for confidential treatment under 5 U.S.C. 552(b). If you do not respond within 30 days of receipt of this Notice, this constitutes a waiver of your right to contest the allegations in this Notice and authorizes the Associate Administrator for Pipeline Safety to find facts as alleged in this Notice without further notice to you and to issue a Final Order.

In your correspondence on this matter, please refer to CPF 1-2016-5008 and for each document you submit, please provide a copy in electronic format whenever possible.

Sincerely,

Byron E. Coy, PE
Director, Eastern Region
Pipeline and Hazardous Materials Safety Administration

Enclosures: Proposed Compliance Order
Response Options for Pipeline Operators in Compliance Proceedings
PROPOSED COMPLIANCE ORDER

Pursuant to 49 United States Code § 60118, the Pipeline and Hazardous Materials Safety Administration (PHMSA) proposes to issue to Dominion, Transmission, Inc. (DTI) a Compliance Order incorporating the following remedial requirements to ensure the compliance of DTI with the pipeline safety regulations:

1. In regard to Item Number 1 of the Notice pertaining to failure to provide sufficient guidance for operating, maintaining, testing, record keeping, and dispatcher training of the system, as required by §195.444, CPM leak detection, DTI must amend its procedures to address the requirements of API RP 1130.

2. DTI must establish the procedures required in Item 1 above within 90 days after receipt of the Final Order, and then submit those procedures to PHMSA for review, possible revision, and eventual approval by PHMSA.

3. DTI must then apply those approved procedures after PHMSA approves the procedures as described in Item 2 above. DTI must also submit records, as required by the amended procedures, to PHMSA for review. This must be accomplished within 270 days after the procedures are approved by PHMSA.

4. It is requested (not mandated) that DTI maintain documentation of the safety improvement costs associated with fulfilling this Compliance Order and submit the total to Byron E. Coy, Director, ER, Pipeline and Hazardous Materials Safety Administration. It is requested that these costs be reported in two categories: 1) total cost associated with preparation/revision of plans, procedures, studies and analyses, and 2) total cost associated with replacements, additions, and other changes to pipeline infrastructure.