## STATE OF VERMONT PUBLIC UTILITY COMMISSION

Case No. 17-3550-INV

Investigation pursuant to 30 V.S.A. §§ 30 and	
209 regarding the alleged failure of Vermont	
Gas Systems, Inc. to comply with the	
certificate of public good in Docket 7970 by	
burying the pipeline at less than required	
depth in New Haven, Vermont	
Case No. 18-0395-PET	

Notice of Probable Violations of Vermont Gas Systems, Inc. for certain aspects of the construction of the Addison natural gas pipeline

## DIRECT TESTIMONY OF CARLOS J. CHAVES ON BEHALF OF VERMONT GAS SYSTEMS, INC.

### September 10, 2021

## SUMMARY OF TESTIMONY

Mr. Chaves testifies about his June 2021 engagement with VGS to review prior surface loading calculations performed in 2016 and 2017 and address questions about the appropriate assumptions to use when performing such surface loading calculations. Mr. Chaves also sponsors a Memorandum he prepared addressing the Vermont Public Utility Commission's questions and setting forth the basis for his conclusion that the Addison Natural Gas Pipeline meets the HS20+15% surface loading standard under a variety of conditions, including those where the depth of cover is two feet.

# **EXHIBITS**

Exhibit VGS-CC-1	Resume of Carlos J. Chaves
Exhibit VGS-CC-2	Memorandum re Surface Loading, June 15, 2021

## DIRECT TESTIMONY OF CARLOS J. CHAVES ON BEHALF OF VERMONT GAS SYSTEMS, INC.

#### 1 Q1. Please state your name, occupation, and business affiliation.

A1. My name is Carlos J. Chaves. I am a Principal Project Manager with Mott MacDonald, a
professional engineering consulting firm.

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### 5 Q2. Please describe your educational background, pertinent professional experience,

### 6 and current job responsibilities.

7 A2. I obtained a Bachelor's of Science degree in Civil Engineering from Rensselaer 8 Polytechnic Institute and a Masters of Business Administration from the University of 9 Massachusetts. I have approximately 18 years of work experience with a primary focus on linear 10 infrastructure projects including 9.5 years of natural gas pipeline experience. I am currently an 11 area manager for Mott MacDonald's Oil and Gas pipeline division encompassing the geographic 12 region of the Northeast US and Canada. My current role includes a variety of responsibilities 13 including project leadership/management roles, staff resource manager, business development as 14 well as management of the West Springfield Mott MacDonald office. I have been involved with 15 numerous natural gas pipeline projects ranging in magnitude from small integrity brownfield 16 replacements to large greenfield expansion projects throughout the US and Canada. See Exhibit 17 VGS-CC-1, which is a copy of my resume.

1	Q3.	Have you previously provided testimony before the Vermont Public Utility
2	Com	nission (the "Commission")?
3	A3.	No.
4		
5	Q4.	Have you previously submitted testimony in this case?
6	A4.	No.
7		
8	Q5.	Describe the purpose of your testimony today.
9	A5.	In June 2021, Vermont Gas Systems, Inc. ("VGS") engaged Mott MacDonald to review
10	severa	al questions the Commission raised in an April 30, 2021 decision relating to surface loading
11	calcul	ations performed in connection with the Addison Natural Gas Project ("ANGP"). In
12	partic	ular, the Commission identified three assumptions that were used in 2016 calculations that
13	were	performed by other Mott MacDonald personnel in 2016 and 2017. In response to VGS's
14	reque	st, I prepared a Memorandum regarding my opinion about the assumption inputs used for
15	5 calculating the surface loading in 2016 and 2017 and performed additional loading calculations	
16	using	a variety of input parameters to confirm that the ANGP meets the HS20+15% loading
17	standa	ard under conditions. I am sponsoring my Memorandum as Exhibit VGS-CC-2.
18		
19	Q6.	Does this conclude your testimony?
20	A6.	Yes.