

**STATE OF VERMONT
PUBLIC UTILITY COMMISSION**

Case No. 23-xx-PET

Petition of Vermont Transco LLC, and Vermont Electric Power Company, Inc. for a certificate of public good, pursuant to 30 V.S.A. § 248(j), authorizing upgrades to VELCO's existing Tafts Corner Substation in Williston, Vermont

**PREFILED TESTIMONY OF EDWARD J. MCGANN
ON BEHALF OF VERMONT ELECTRIC POWER COMPANY, INC.**

This testimony and associated exhibits have been filed ePUC

September 29, 2023

Ed McGann's testimony describes the proposed Tafts Corner Substation 115 kV Breaker Project's engineering and design details related to upgrading VELCO's existing substation located at 525 Sycamore St. in Williston, Vermont. Mr. McGann also addresses 30 V.S.A. § 248(b)(5) (public health and safety) in regards to the substation work.

TABLE OF CONTENTS

INTRODUCTION 1

TESTIMONY OVERVIEW2

PUBLIC HEALTH AND SAFETY [30 V.S.A. § 248(b)(5)].....4

EXHIBITS

- Exhibit Petitioner EJM-1 Résumé of Edward J. McGann**
- Exhibit Petitioner EJM-2 Tafts Corner Substation One-Line Diagram**
- Exhibit Petitioner EJM-3 Tafts Corner Substation Aerial Photograph**
- Exhibit Petitioner EJM-4 Tafts Corner Substation General Arrangement Plan and Elevations**
- Exhibit Petitioner EJM-5 Tafts Corner Substation Overall Site Plan**

PREFILED TESTIMONY OF EDWARD J. MCGANN
ON BEHALF OF VERMONT ELECTRIC POWER COMPANY, INC.

1 **Introduction**

2 Q1. Please state your name, occupation, and business address.

3 A1. My name is Ed McGann. I am the Director of Engineering for Vermont Electric
4 Power Company, Inc. and Vermont Transco LLC (collectively referred to as
5 “VELCO” or the “Petitioners”) and I am responsible for the overall technical design
6 of VELCO’s transmission facilities. I have served in an engineering capacity since
7 joining VELCO in 2004. My business address is 366 Pinnacle Ridge Road, Rutland,
8 Vermont 05701.

9
10 Q2. Please describe your educational background and work experience.

11 A2. I received my Bachelor of Science degree in Electromechanical Engineering
12 Technology from Vermont Technical College in 1999. Specific information
13 regarding my work experience is detailed in my resume, attached as Exhibit
14 Petitioner EJM-1.

15
16 Q3. Have you previously provided testimony before the Vermont Public Utility
17 Commission (“the Commission” or “PUC”)?

18 A3. Yes, I have provided testimony in PUC Docket No. 8604, the PV20 Cable
19 Replacement Project, PUC Docket No. 8605, the Connecticut River Valley Project,

1 PUC Docket No. 17-3808, the St. Albans Project, and PUC Docket No. 20-0444,
2 the Sandbar Project.

3

4 Q4. Do you hold any professional licenses or certifications?

5 A4. Yes, I am a registered Professional Engineer in the state of Vermont.

6

7 **2. Testimony Overview**

8 Q5. What is the purpose of your testimony?

9 A5. My testimony addresses VELCO's proposed Tafts Corner Substation 115 kV
10 Breaker Project's engineering and design details related to upgrading VELCO's
11 existing substation located at 525 Sycamore St., in Williston, Vermont, that are not
12 otherwise addressed in Dave Haas' prefiled testimony. I also address 30 V.S.A. §
13 248(b)(5) (public health and safety) in regard to the substation work.

14

15 Q6. Have you prepared exhibits relating to the proposed substation work?

16 A6. Yes. Exhibits related to the substation include Exhibit Petitioner EJM-2, which
17 contains a One-Line Diagram of the Tafts Corner substation. Exhibit Petitioner
18 EJM-3 contains an aerial photograph of the substation. Exhibit Petitioner EJM-4
19 contains the general arrangement plan and elevation drawings for the substation.
20 Exhibit Petitioner-EJM-5 contains the overall site plan for the substation.

21

22 Q7. Will there be any changes to the existing Tafts Corner substation lighting plans?

23 A7. No

1

2 Q8. What design standards did VELCO use to design the proposed Taft's Corner
3 substation upgrades?

4 A8. VELCO followed its Substation Design Standards for the design of Taft's Corner
5 substation upgrades. VELCO's Substation Design Standards are based on industry
6 standards, including the National Electrical Safety Code ("NESC"), Institute of
7 Electrical and Electronic Engineers ("IEEE"), American National Standards
8 Institute ("ANSI") and National Electrical Manufacturer's Association ("NEMA").

9

10 Q9. Does VELCO plan on making any changes to the existing Taft's Corner substation
11 access driveway? If yes, please describe.

12 A9. No.

13

14 Q10. Will VELCO need to perform any grading for the substation upgrades?

15 A10. No. All work will be performed within the substation fence.

16

17 Q11. Will the Project add any noise producing equipment?

18 A11. No. The circuit breaker and instrument voltage transformer additions are not noise
19 producing equipment.

20

21 Q12. In your opinion, have the Project elements included in the VELCO Taft's Corner
22 substation proposals, as described in the exhibits you have sponsored, reached a
23 design level of detail?

1 A12. Yes. The plans and elevations that VELCO has included as exhibits to this
2 testimony reflect the locations and heights of the equipment proposed for
3 construction of the Taft's Corner substation.

4

5 **3. Public Health and Safety [30 V.S.A. § 248(b)(5)]**

6 Q13. Will the substation upgrades have any adverse effects on the health, safety, or
7 welfare of the public or adjoining landowners?

8 A13. No. The substation is an existing facility and not accessible to the general public.
9 VELCO has designed and will construct the Project in accordance with industry
10 safety standards, including the National Electric Safety Code requirements.
11 VELCO will adhere to prudent utility construction practices throughout the
12 construction phase and the Project will not endanger the public or adjoining
13 landowners. The substation will be fenced in at all times during and after
14 construction to protect against unauthorized access. VELCO will operate and
15 maintain the upgraded substation in the same, safe manner that the company
16 operates and maintains all of its facilities.

17

18 Q14. Does this conclude your testimony at this time?

19 A14. Yes, it does.