

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

IN THE MATTER OF THE APPLICATION
OF ENBRIDGE GAS UTAH TO EXTEND
GAS SERVICE TO FAIRFIELD, UTAH

Docket No. 25-057-20

DIRECT TESTIMONY OF WILLIAM S. RADFORD

FOR ENBRIDGE GAS UTAH

September 19, 2025

EGU Redacted Exhibit 2.0

I. INTRODUCTION

Q. Please state your name and business address.

A. My name is William S. Radford. My business address is 333 South State Street, Salt Lake City, UT 84111.

Q. By whom are you employed and what is your position?

A. I am employed by Enbridge Gas Utah (“Enbridge Gas,” “EGU,” or “Company”) as the Manager of Compliance Engineering. I am primarily responsible for the Engineering and Project Management of various compliance type capital work programs. My qualifications are included in EGU Exhibit 2.01.

Q. Have you testified before this Commission before?

A. Yes. I testified in 2023 in Docket No. 23-057-13 and in 2024 in Docket No. 24-057-13.

Q. Attached to your written testimony are EGU Exhibits 2.01 through 2.07. Were these prepared by you or under your direction?

A. Yes, unless otherwise indicated. In that case, they are true and correct copies of what they purport to be.

Q. What is the purpose of your direct testimony?

A. The purpose of my testimony is to provide an overview of the required capital improvements necessary to extend natural gas service to the community of Fairfield (“the Community”). This overview will include the scope of work and costs of required facility construction, the timing of that construction, and estimates on the potential number of new customers.

II. PROJECT SCOPE AND SCHEDULE

Q. Please describe the communities and the area the Company proposes to serve under the Application in this matter.

A. Fairfield is an incorporated town in Utah County, Utah. It has an estimated population of 157 residents and covers approximately 2.3 square miles. I have attached a map of Fairfield as EGU Exhibit 2.02. The shaded area in each exhibit shows the area the Company proposes to serve.

Q. How was the community of Fairfield selected for this project?

A. The Company maintains an evaluation matrix that includes any community in Utah that does not currently receive natural gas service. We developed high level cost estimates to serve each community using potential customer count, pipeline alignments and anticipated scope of work for the facilities that would likely be required. We also considered distance to current service territory, permitting, and benefit to community. This matrix is included in Mr. Parks' testimony as EGU Confidential Exhibit 1.03.

Q. What facilities does the Company propose to construct in this docket?

A. The Company is seeking pre-approval for the construction of intermediate high-pressure ("IHP") pipeline facilities necessary to provide natural gas service to Fairfield. Enbridge Gas proposes to construct approximately 68,783 feet of intermediate high pressure pipeline (27,700 feet of 8-inch pipe, 5,620 feet of 6-inch pipe, 14,080 feet of 4-inch pipe, and 21,383 feet of 2-inch pipe) to extend existing natural gas infrastructure to Fairfield. The Company also proposes to construct 21,861 feet of IHP service lines in Fairfield.

Q. How many prospective customers could receive natural gas service if the Commission approves the Application in this Docket?

A. The Company has counted 87 potential customers in the proposed Fairfield service area. The Company's review was performed by counting structures using aerial imagery in Google Earth. The Company's cost estimates assume all 87 customers sign up for gas service.

Q. How did the Company develop the boundaries of the proposed service area?

A. The proposed service area was developed using the results of the Company's survey of Fairfield. As Mr. Parks testifies in his pre-filed direct testimony, the Company conducted community outreach activities, including a survey of residents to gauge interest in receiving natural gas service. The majority of respondents indicated that they wanted natural gas service. EGU Confidential Exhibit 2.03 shows the location of the prospective customers who responded to the survey. The green pinpoints on EGU Confidential Exhibit 2.03 indicate the location of respondents who indicated they were interested in natural gas service, the yellow pinpoints indicate they may potentially be interested, and red indicates they will not be interested in natural gas service.

Q. How many of those prospective customers have expressed interest in receiving natural gas service?

A. At the time of this writing the total number of survey respondents is 62. Fifty seven of those indicated interest in gas service, four indicated that they were uncertain, and one indicated no interest in gas service.

Q. Have you forecast the natural gas consumption for Fairfield customers pursuant to Commission Rule § 54-17-402(3)(b)(ii)(C)?

A. Yes, the consumption usage is based on the count of total potential customers in Fairfield. The gas consumption calculation is shown in the residential load calculator EGU Exhibit 2.04.

Q. How did the Company determine the size of the IHP lines that would be used to extend gas service to Fairfield?

A. The Company performed a sizing study based upon the anticipated customer demand and determined that combination of 8-inch pipe, 6-inch pipe, 4-inch pipe, and 2-inch pipe would best serve Fairfield.

75 **Q. How did the Company conduct the sizing study?**

76 A. The Company's IHP Engineering department built a gas network model of the Fairfield
77 community to determine the required main sizing for the entire system. The Company
78 calculated the loads driven by the potential gas customers using the residential load
79 calculator, included as Exhibit 2.04, and applied those loads to mains in the gas network
80 model. The Company determined the expected lengths and position of mains based on
81 aerial imagery and the location of residences. The Company accounted for regional growth
82 and economic development in main sizing as well. This process is discussed in greater
83 detail in Exhibit 2.05.

84 **Q. How did the Company estimate the total length of the service lines in Fairfield?**

85 A. The Company developed a preliminary IHP main design in CAD and then imported the
86 design into Google Earth. The Company identified each potential customer in Google Earth
87 and drew a service line between the estimated future meter location and the IHP main in
88 the road. The Company estimated the meter location by using the location of the propane
89 tank and determining the most likely point where the fuel line would enter the home.

90 **Q. What route did the Company consider for the pipeline alignment?**

91 A. The Company considered two options. I will refer to these as "Option A" and "Option B".
92 Both alignments presented here can be seen in Exhibit 2.06.

93 Option A would include the extension of 8-inch IHP pipe beginning at the intersection of
94 Highway 73 and Pole Canyon Boulevard, running south for 10,003 feet to Lehi Fairfield
95 Road, then east and northeast for 17,697 feet to Pole Canyon Boulevard. From there, the
96 Company would build various 6-inch, 4-inch, and 2-inch IHP mains extending off this

primary 8-inch feed to further distribute gas throughout Fairfield. The total estimated cost for all of the IHP mains for this option is estimated at \$ [REDACTED].

Option B would require the extension of the Company's' HP pipeline system, and the installation of a pressure regulator station, as well as the construction of an IHP distribution system. Under this option, the Company would extend a 6-inch HP pipeline beginning on Highway 73 near 4000 North and extending 16,986 feet to the south to a point where a pressure regulator station could be placed on 150 North in Fairfield. The total estimated cost for all of the HP pipeline, pressure regulator station and IHP mains for this option is estimated at \$ [REDACTED].

Option B would require the acquisition of property rights for the regulator station. Option A does not require the acquisition of any property rights. Both would require similar permitting and both would have similar requirements in terms of environmental compliance. Because the cost for Option A is lower than Option B, it is the better option for serving Fairfield.

Q. What is the estimated cost to extend natural gas service to Fairfield?

A. The estimated cost for the total project is [REDACTED]. This amount includes construction of the IHP pipelines (Option A) and service lines. EGU Confidential Exhibit 2.07 shows the cost estimate summary for the IHP facilities.

To ensure the cost estimates are as accurate as reasonably possible, significant efforts have gone into up-front design of the IHP mains and service lines, including estimated lengths and proposed installation method. This approach helped ensure that more accurate material and labor quantities went into the cost estimates.

Q. What contracts will be required to construct the facilities you have described?

A. For the field construction work of the project, the Company will conduct a bid process to select a prime contractor. The bids will be evaluated for cost, construction schedule, and the contractor's safety and performance metrics. Other smaller sub-contracts will be awarded to support field inspection and environmental inspections.

124 Q. **What governmental authorizations are required to construct these facilities?**

125 A. Excavation permits from UDOT, Utah County and Fairfield City will be required.
126 Additionally, a Storm Water Pollution Prevention Plan and permitting through the Utah
127 Department of Environmental Quality will be required.

128 Q. **Have you developed a project schedule for the proposed expansion of service to**
129 **Fairfield?**

130 A. Yes. I estimate that the entire project would take between 5 and 7 months to construct. If
131 the Commission approves the project, the Company intends to commence construction
132 during the second quarter of 2026 and expects mains to be in service by November 2026.

133 Q. **Will you please summarize your testimony?**

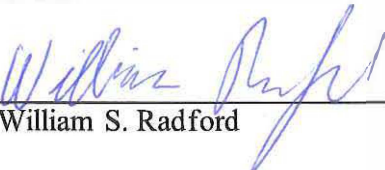
134 A. Yes. The Company proposes to invest \$[REDACTED] in IHP mains and services to serve the
135 community of Fairfield, Utah. The facilities would include 68,783 feet of intermediate
136 high pressure pipeline and 21,861 feet of IHP service lines. The Company plans to install
137 up to 87 services lines to any interested residents or businesses that sign up for natural gas
138 service.

139 Q. **Does this conclude your testimony?**

140 A. Yes.

State of Utah)
) ss.
County of Salt Lake)

I, William S. Radford, being first duly sworn on oath, state that the answers in the foregoing written testimony are true and correct to the best of my knowledge, information and belief. Except as stated in the testimony, the exhibits attached to the testimony were prepared by me or under my direction and supervision, and they are true and correct to the best of my knowledge, information and belief. Any exhibits not prepared by me or under my direction and supervision are true and correct copies of the documents they purport to be.



William S. Radford

SUBSCRIBED AND SWORN TO this 19th day of September, 2025.



Notary Public

