1 2		Service Commission ocket No. 2022.07.078
3 4	Electric and Natural Gas	General Rate Review
5		
6 7	PRE-FILED DIRECT TESTIMONY	
8	OF JASON M. MCCLAFFERTY	
9	ON BEHALF OF NORTHWESTERN ENE	RGY
10		
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1		Witness Information
2	Q.	Please provide your name, employer, and title.
3	Α.	My name is Jason M. McClafferty. I am NorthWestern Energy's
4		("NorthWestern") Manager of Gas Transmission Operations.
5		
6	Q.	Please provide a description of your relevant employment
7		experience and other professional qualifications.
8	Α.	I have a Bachelor of Science degree in General Engineering with
9		Mechanical emphasis from Montana Tech of the University of Montana. I
10		joined NorthWestern in October 2006 and have worked in the Gas
11		Transmission and Storage ("GTS") department for the last 15 years. I am
12		a registered Professional Engineer in the State of Montana.
13		
14		I have held staff and supervisor positions within the GTS Department
15		during my employment at NorthWestern, including positions within the
16		Gas Engineering Department, the Gas System Planning Group, and the
17		Gas System Operation Group. In 2020, I was promoted to the Manager of
18		Gas Transmission Operations. In my prior positions, I performed initial
19		design, construction oversite, and operation startup of regulation and
20		measurement stations, compressor stations, new pipeline sections, and
21		purchase stations. I have held both Chair and Vice Chair positions in the
22		Southern Gas Association (SGA) Forecasters Forum Committee where
23		daily, monthly, yearly, and long-range gas transmission forecasting for gas

1		load and system growth are discussed amongst utilities. In my current
2		role as Manager of Gas Transmission Operations, I oversee daily Gas
3		Transmission and Storage operation and coordinate workflow throughout
4		the Montana service territory. I develop seasonal storage planning, long-
5		term system development, and ensure safe, reliable, compliant operation
6		of the gas transmission system.
7		
8		I was also an expert witness regarding natural gas transmission planning
9		in NorthWestern's last natural gas general rate review in 2016, Docket No.
10		D2016.9.68, filed with the Montana Public Service Commission
11		("Commission").
10		
12		
12		Purpose and Summary of Testimony
	Q.	<u>Purpose and Summary of Testimony</u> What is the purpose of your testimony in this docket?
13	Q. A.	
13 14		What is the purpose of your testimony in this docket?
13 14 15		What is the purpose of your testimony in this docket? The purpose of my testimony is to provide details to support
13 14 15 16		What is the purpose of your testimony in this docket? The purpose of my testimony is to provide details to support NorthWestern's GTS initiatives, other than in pipeline compliance, which is
13 14 15 16 17		What is the purpose of your testimony in this docket? The purpose of my testimony is to provide details to support NorthWestern's GTS initiatives, other than in pipeline compliance, which is discussed in the Pre-filed Direct Testimony of Keith W. Meagor. My
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ol>		What is the purpose of your testimony in this docket? The purpose of my testimony is to provide details to support NorthWestern's GTS initiatives, other than in pipeline compliance, which is discussed in the Pre-filed Direct Testimony of Keith W. Meagor. My testimony also describes investments that NorthWestern has made in
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>		What is the purpose of your testimony in this docket? The purpose of my testimony is to provide details to support NorthWestern's GTS initiatives, other than in pipeline compliance, which is discussed in the Pre-filed Direct Testimony of Keith W. Meagor. My testimony also describes investments that NorthWestern has made in natural gas transmission and what is anticipated in the near future. I also
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>		What is the purpose of your testimony in this docket? The purpose of my testimony is to provide details to support NorthWestern's GTS initiatives, other than in pipeline compliance, which is discussed in the Pre-filed Direct Testimony of Keith W. Meagor. My testimony also describes investments that NorthWestern has made in natural gas transmission and what is anticipated in the near future. I also present and explain proposed changes to tariffs and rules related to

1 **Q.** Please summarize your testimony.

2	Α.	Regarding NorthWestern's Montana natural gas transmission system, my
3		testimony describes the major challenges and initiatives facing the
4		system, operation and maintenance ("O&M"), and costs incurred since
5		NorthWestern's last natural gas general rate review in 2016. The test year
6		for the last general rate review was 2015. As a result, I focus on activities
7		and costs during the period 2016 through 2021, the test year for this rate
8		review. More specifically, my testimony discusses:
9		<ul> <li>the physical characteristics and operation of the system including</li> </ul>
10		gas transmission and storage facilities, major interconnections with
11		other gas pipelines, and system deliverability;
12		O&M of the system;
13		major plant additions;
14		<ul> <li>gas transmission system planning; and</li> </ul>
15		<ul> <li>a discussion of challenges to come, including meeting 1) peak day</li> </ul>
16		capacity needs and system growth, and 2) the potential future need
17		to provide gas transmission service for natural gas-fired generation
18		within NorthWestern's service territory.
19		
20		Natural Gas Transmission and Storage Systems
21	Q.	What are the sources of natural gas on NorthWestern's transmission
22		system?

1	Α.	There are three major sources of natural gas on NorthWestern's
2		transmission system. First, there are 27 purchase stations, i.e., natural
3		gas production inputs, connected to NorthWestern's system that provide
4		supply to the system from third-party producers. Secondly, there are six
5		interconnecting pipelines on NorthWestern, namely Carway with
6		TransCanada Energy, Elk Basin with Colorado Interstate Gas, WBI with
7		Williston Basin Interstate, Aden Border with Pine Cliff Energy, Many
8		Islands with TransGas, and Havre Pipeline Company at Blaine County #3.
9		Lastly, we own and operate three underground natural gas storage fields,
10		namely Cobb, Box Elder, and Dry Creek.
11		
12	Q.	How much natural gas is NorthWestern's transmission system
13		designed to deliver?
14	Α.	For the 2021/2022 heating season, the NorthWestern gas transmission
15		system was designed to deliver 358,515 dekatherm per day (Dkt/d), and
16		this deliverability was achieved through the resources shown in Table 1
17		below. A comparison to the 2015 percent resource allocation shows
18		increased interconnection capability.
19		

Gas Transmission Natural Gas Resource Allocation			
	Dkt/d	2021 % Resource	2015 % Resource Comparison
2021 Design Day	358,515		
Transmission System Resources	5		
Flowing Gas	26,000	7%	12%
Total Storage	169,000	47%	49%
Total Interconnects	163,515	46%	39%
Total Transmission system Reso	358,515		
Note: System design day is total fi	rm deliveries w	/ith 2.46% fuel	adder.

### Table 1: Gas Transmission Resources

#### 1 Q. What volume of natural gas did NorthWestern's transmission system 2

## deliver to Montana customers in 2021?

3 Α. NorthWestern delivered 43,722,529 million cubic feet ("MCF") of natural gas to its Montana customers in 2021. About 51% or 22.3 billion cubic 4 5 feet ("BCF") of the gas was delivered to the Core Customers for which 6 NorthWestern also has the responsibility to provide natural gas supply and 7 39% or 17.2 BCF was delivered to the on-system, Non-Core Customers -8 those customers to whom NorthWestern provides transmission service, 9 but is not responsible for providing natural gas supply. For more details on 10 natural gas supply to Core Customers, see the Pre-filed Direct Testimony 11 of Bleau J. LaFave. Additionally, 10% or 4.2 BCF was delivered to onsystem interruptible customers – those customers to whom NorthWestern 12 13 provides non-firm transmission service.

1	Q.	Does NorthWestern expect that its current natural gas transmission
2		and storage systems are sufficient to serve customer needs in the
3		future?

4	Α.	No. The gas transmission and storage systems is currently fully
5		"subscribed" meaning that during certain times of the year there is no
6		additional capacity available on parts of the transmission system. Our
7		2021 analysis shows a one-year compound annual growth rate of 1.38%
8		for NorthWestern's Core Customers. We expect this trend to continue as
9		shown below in the historical annual growth rate table. The table includes
10		totals for both Core and Non-Core Customers. However, annual growth
11		rate is based on organic Core Customer growth only with Non-Core
12		Customer counts added after the growth rate is calculated.

Yearly Annual Growth Rate		Total Customers
2016	1.31%	191,696
2017	1.40%	194,388
2018	1.26%	196,838
2019	1.27%	199,343
2020	1.19%	201,722
2021	1.38%	204,507

Table 2: Gas Transmission

- 13 Additionally, the on-system flowing gas from all producers on the
- 14 transmission system, referred to above as the purchase stations, is
- 15 declining at approximately 8% per year, and NorthWestern expects this
- 16 trend to continue as well. The 8% decline in on-system flowing natural
- 17 gas is a natural phenomenon of declining pressure in production

reservoirs, which decreases the ability of the reservoir to sustain the
 current flow rate. The offset to declining production is to drill additional
 wells.

5 The combination of the system growth and flowing gas decline results in a 6 supply/delivery gap to meet customer needs of approximately 5,000 MCF 7 per day, annually, looking forward. This additional volume is needed during design day weather events and indicates the need for additional 8 9 system capacity during times of greatest need for our customers - cold 10 weather events experienced during the heating season. Design day 11 weather on the NorthWestern system is defined as the weather 12 encountered on the NorthWestern system during February 2, 1989. This 13 weather event was a coincidental peaking event that covered the entire 14 NorthWestern service territory in Montana. A significant amount of data 15 analysis has been done with the National Weather Service and the 16 Montana Climate Office at the University of Montana to determine if this 17 event is likely to occur again. The analysis shows an event similar to the 18 1989 event is likely to occur again, and recent cold weather events have 19 shown that specific areas of the system have been colder than the 1989 20 event. This, in turn, further indicates the need for NorthWestern to 21 continue designing its system to these temperatures.

22

# Q. Is it realistic to expect that all natural gas facilities operate at peak capability at all times?

3 Α. No. NorthWestern personnel take steps each year to properly inspect and 4 maintain the equipment we own and operate. However, under certain 5 conditions, storage field flows can decline below expectations. For 6 example, storage wells and pipelines can and do freeze off. Natural gas 7 produced from storage fields or production fields enter the gathering 8 system saturated with water from the reservoir. Once at the surface, the 9 water vapor can drop out of the natural gas stream as temperatures cool 10 or the pressure changes when the natural gas flows from the reservoir to 11 the pipeline. We attempt to mitigate this problem, but cannot predict all 12 circumstances where freeze-offs can occur.

13

14Also, compressor station equipment can fail when operating under15extreme conditions for extended periods. We mitigate the potential for this16problem by designing compressor stations with spare units. The failure of17a compressor thus results in lowered reliability from that particular18compressor station. Any additional failures or compressor shut-downs will19result in lower supply on the transmission system.

20

Further, extreme cold weather, power outages, loss of flow from outside parties, either interconnect gas or third-party producers, can all result in a loss of natural gas supply on the transmission system.

# Q. What happens when there is inadequate deliverability to meet demand?

3 Α. While NorthWestern plans carefully and has built a certain amount of 4 redundancy into the natural gas transmission system, we do recognize 5 that events outside of our control can occur. These include much colder 6 weather than designed for or expected (or for a longer period of time) or 7 unexpected equipment outages either on our system or on adjacent 8 systems delivering to our interconnections. NorthWestern maintains a 9 Gas Curtailment Plan that allows us to interrupt natural gas use through 10 careful curtailment of NorthWestern's electric distribution customers that 11 also are served by NorthWestern's natural gas transmission system. A 12 curtailment plan for natural gas operations allows us to avoid more 13 prolonged, difficult outages. Curtailment of firm natural gas transmission 14 customers is done only after all other options are exhausted including 15 curtailment of interruptible natural gas loads.

16

Before curtailment is considered, we look for other solutions to contingencies. For example, the loss of natural gas supply from a thirdparty producer, storage field, or interconnecting pipeline can be fixed by supplying natural gas from another source in many circumstances. The loss of a compressor is fixed by starting the spare compressor. The freeze-off in one pipeline can be offset by rerouting supply to another pipeline until the affected pipeline can be "thawed". Generally, these

1		solutions require field personnel to perform these duties and are not
2		considered long-term fixes.
3		
4		It is important to note that, to date, NorthWestern has not had to
5		implement the Gas Curtailment Plan. However, it is a prudent practice to
6		have the plan ready to use.
7		
8	Q.	Please provide an overview of O&M activities on NorthWestern's
9		Montana natural gas transmission system and storage facilities.
10	Α.	NorthWestern has approximately 121 full-time positions in GTS located in
11		Butte, Augusta, Dry Creek, Cut Bank, Havre, and Deer Lodge, who
12		operate and maintain the natural gas transmission system and storage
13		facilities. The staff provide engineering; maintenance of the Geographic
14		Information System; design drafting; construction and maintenance;
15		system integrity and cathodic protection; gas measurement; billing and
16		supervisory control and data acquisition; gas system control; gas
17		production, gathering, and processing; and storage and transmission
18		services. The staff's responsibility includes the safe, reliable operation of
19		the system including inspections.
20		
21	Q.	Please further describe NorthWestern's inspection and maintenance
22		activities.

A. One hundred percent of the natural gas transmission system is inspected
 annually through visual, laser detection, or flame ionization testing. Laser
 technology and flame ionization are both techniques that can be used to
 detect the level of flammable gas in an environment.

6 Depending on location and population, some portions of the system are 7 inspected more often. Known High Consequence Areas (Mr. Meagor 8 discusses these areas in more detail) are patrolled monthly for any 9 changes. Other activities include routine maintenance, compressor 10 overhauls, well maintenance, cathodic protection maintenance, and city 11 gate station maintenance. NorthWestern also uses contractors in some 12 cases to complete various tasks on our system, including pipeline right-of-13 way clearance and compressor overhauls.

14

5

#### 15 **Q.** What operation, inspection, and maintenance activities does

#### 16 NorthWestern conduct on its natural gas storage facilities?

17 **A.** NorthWestern personnel inspect and maintain compressors, dehydrators,

18 control valves, electronic monitoring equipment, liquids removal plants,

- 19 storage wells, and pipelines to name a few. The purpose of the inspection
- and maintenance of this equipment is to ensure safe, reliable service
- throughout the year. We consult manufacturers' recommendations,
- 22 industry best practices, and regulations to establish procedures for these
- 23 activities. Mr. Meagor discusses NorthWestern's storage facilities and

1		compliance with Pipeline Hazardous Materials and Safety Administration
2		(PHMSA) regulations in greater detail.
3		
4		Natural Gas Transmission and Storage Systems Planning
5	Q.	How does NorthWestern determine the needs of the natural gas
6		transmission system?
7	Α.	We conduct annual planning in order to determine the need for capacity
8		on our natural gas transmission system.
9		
10	Q.	Please describe NorthWestern's transmission and storage systems
11		planning methodology.
12	Α.	NorthWestern plans for modifications and upgrades to the natural gas
13		transmission and storage systems to meet growing customer peak day
14		deliverability needs using hydraulic engineering modeling software. The
15		software is capable of determining pipeline pressure and size
16		requirements for the entire system. The model helps us to predict overall
17		system needs and peaking requirements, which then allows us to
18		determine how to maintain or increase overall deliverability through on-
19		system gas, storage capability, and interconnections to other pipelines.
20		The modeling software also allows us to study and engineer for local area
21		deliverability under normal operation and peaking events.
22		

1 Each year, NorthWestern uses a multi-variable, linear regression program 2 to develop the expected system peak day requirements based on expected adverse weather conditions and use per customer. The 3 variables include average daily temperature, previous day temperature, 4 5 next day temperature, wind speed, relative humidity, cloud cover, 6 weekday/weekend occurrence, and percent of residential customers. Of 7 all of the variables, the model is the most sensitive to the temperature of 8 the peak day event. The peak day design delivery capability for the 9 system drives the capacity-related capital expenditures on the natural gas 10 transmission and storage systems. As a result, this planning effort is an 11 important annual exercise and helps NorthWestern predict capacity 12 requirements and needed capital investment over a 10-year planning 13 horizon. Again, as noted earlier, NorthWestern worked with the National 14 Weather Service and the Montana Climate Office at the University of 15 Montana regarding its peak day forecasting techniques. We also 16 benchmarked against other similar natural gas delivery companies. This 17 process validated the methodology that we use for our forecasts and 18 highlighted the fact that the weather (temperature) that is assumed for the 19 peak day is the largest driver of all of the variables. NorthWestern 20 documents and summarizes the results of the planning methodology 21 yearly.

Q. Please describe NorthWestern's transmission and storage systems
 upcoming challenges.

3 Α. Data analysis continues to show that the gas transmission and storage 4 systems is at full capacity as outlined above in Table 1. Planning on the 5 systems has been accomplished in a near "just in time" fashion. This 6 results in capacity increases being utilized in a very short period of time 7 and does not allow for any significant increase of capacity on the systems. 8 As further proof of systems capacity constraints, a number of potential 9 customers over the past few years have declined to take service from the 10 NorthWestern transmission system because additions to the system are 11 extremely expensive from the potential customer's point of view.

12

13 Our future challenge is to build out the natural gas transmission and 14 storage systems to allow for delivery from storage fields to the load 15 centers on the transmission system. We currently have sufficient "annual 16 capacity", but continue to see a growing design day capacity need. We 17 believe the answer to this challenge is to develop more storage on the 18 system and rebuild NorthWestern pipelines to increase the capacity to our 19 growing customer base. To meet this challenge, we are studying multiple 20 transmission system enhancements of existing and/or addition of storage 21 facilities.

1		Natural Gas Transmission and Storage Costs
2	Q.	Please describe the types of capital investment projects
3		NorthWestern GTS undertakes.
4	Α.	There are four different types of natural gas capital investment projects:
5		Natural Gas Capacity, Compliance, Reliability, and Asset Life.
6		Gas Capacity related projects are needed to meet growing firm
7		customer peak day deliverability needs. Capacity projects are
8		identified through the natural gas transmission and storage planning
9		process discussed earlier in my testimony. Capacity projects include,
10		but are not limited to, compressor station additions, pipeline looping,
11		regulator capacity increase, and storage field enhancements.
12		Compliance related projects are required by the Code of Federal
13		Regulations, 49 CFR 192. (Mr. Meagor provides more information on
14		these projects.)
15		Reliability related projects are planned and executed to ensure that
16		our customers are able to receive delivered natural gas when it is
17		needed, even under difficult situations. We plan for contingencies on
18		the system as part of our reliability efforts. Reliability projects include,
19		but are not limited to, dresser coupled pipeline replacement,
20		transmission facility single failure points, and obsolete system
21		components.
22		Asset Life projects are planned and executed to ensure we are
23		keeping up with aging infrastructure. Asset Life projects include, but

1		are not limited to, pipelines, pipeline components, storage wells, and
2		other transmission facilities that have reached their useful life
3		documented through leaks, repairs, and integrity issues.
4		
5	Q.	How does NorthWestern determine what natural gas transmission
6		projects to pursue?
7	Α.	Our evaluation process begins with identifying the needs as described
8		earlier in my testimony. Once the needs are identified, preliminary
9		solutions are produced and evaluated based on costs and effectiveness.
10		Each solution has differing merits and different costs. We look for a
11		solution that provides the most benefit to customers from an O&M and
12		reliability standpoint. NorthWestern then compares the costs, often on a
13		net present value basis, which includes initial investment and O&M as well
14		as asset life and depreciation, as appropriate.
15		
16		This analysis results in a list of capital investment needs that fall into the
17		different categories mentioned above, namely capacity, reliability, asset
18		life, and compliance. The natural gas transmission and storage systems
19		planning process described in my testimony is dealing with growth
20		projects. However, we also look at reliability, asset life, and regulatory
21		compliance in our annual review. The process for discovering and
22		establishing these types of projects varies from the growth projects in that

1		they are discovered through operations issues, maintenance activities,
2		and review of code requirements each year.
3		
4	Q.	How does NorthWestern rank potential projects identified in that
5		process?
6	Α.	NorthWestern has a formal ranking process used throughout the
7		Company to rank and prioritize projects. The specifics of the ranking
8		process vary slightly from department to department. GTS uses criteria
9		based upon asset life, capacity, reliability and risk (probability times
10		severity of consequence), and compliance.
11		
12	Q.	Please discuss significant capital investments made since
13		NorthWestern's last natural gas general rate review in 2016.
14	Α.	In 2016, NorthWestern added significant compression horsepower,
14 15	Α.	In 2016, NorthWestern added significant compression horsepower, approximately \$7.7 million, to allow for increased storage flows and
	Α.	
15	Α.	approximately \$7.7 million, to allow for increased storage flows and
15 16	Α.	approximately \$7.7 million, to allow for increased storage flows and increased pressure to the Kalispell area. The additional flow from these
15 16 17	Α.	approximately \$7.7 million, to allow for increased storage flows and increased pressure to the Kalispell area. The additional flow from these
15 16 17 18	Α.	approximately \$7.7 million, to allow for increased storage flows and increased pressure to the Kalispell area. The additional flow from these supplies was needed to meet system demand.
15 16 17 18 19	Α.	approximately \$7.7 million, to allow for increased storage flows and increased pressure to the Kalispell area. The additional flow from these supplies was needed to meet system demand. In 2017, NorthWestern added an additional compressor, approximately

In 2018, we added compression at Absarokee, approximately \$7.4 million,
to allow for increased flows from the CIG interconnect and Dry Creek
storage to serve increasing load in the Bozeman area. Significant
changes to the Carway pipeline, approximately \$2 million, were also
completed in 2018 to allow for inline inspection tools to meet various
regulatory requirements in Canada and the United States.

7

In 2019, NorthWestern added more compression, approximately \$3.5 8 9 million, to Absarokee to further increase capacity into the Bozeman area. 10 Additionally, the Belfry compressor station build-out, approximately \$2 11 million, began to allow for increased capacity from the CIG interconnect 12 and increased reliability into the GTS transmission system. The Billings 13 area also benefitted from the addition of the Warren – Billings pipeline 14 rebuild/reroute, approximately \$13.6 million, which was done to meet 15 regulatory requirements.

16

17 In 2020, NorthWestern added compression, approximately \$8.8 million, at

18 Belfry to further enhance capacity into the GTS transmission system.

19 There were also a number of regulatory compliance-related projects,

20 approximately \$3.5 million, in the Helena and Choteau areas.

1		In 2021, NorthWestern started work to replace the Morel-Butte pipeline,
2		spending approximately \$15.7 million. This project increases reliability as
3		well as capacity to flow additional gas into the Butte and Bozeman areas.
4		
5		Proposed Changes to Natural Gas Transmission Tariffs
6	Q.	What proposed tariff changes are you sponsoring in this docket?
7	Α.	I sponsor proposed changes to Tariff Schedule Nos. GTC-1 and AGTC-1,
8		and Natural Gas Rule 1.
9		
10	Q.	Please identify the proposed changes to Schedule No. GTC-1,
11		including the reason(s) for the proposed changes.
12	Α.	Exhibit JMM-1 reflects the proposed redlined changes to Schedule No.
13		GTC-1. The proposed changes to Schedule No. GTC-1 include the
14		following:
15		1. Addition of a new Section 19 reflecting NorthWestern's offered
16		open seasons to allocate available storage capacity or unused
17		pipeline capacity that benefits Core Customers through offsets to
18		rates;
19		2. Modifications to the standards of conduct to provide clarity;
20		3. Modifications to the allocation of capacity in Sections 17 and 18 to
21		address growth on our system and related planning for customers
22		other than Core Customers; and

1		4. Modifications to Section 11 regarding the responsibility for the
2		natural gas to provide clarity.
3		
4	Q.	Please identify the proposed changes to Schedule No. AGTC-1,
5		including the reason(s) for the proposed changes.
6	Α.	Exhibit JMM-2 reflects the proposed redlined changes to Schedule No.
7		AGTC-1. The proposed changes to Schedule No. AGTC-1 include the
8		following:
9		1. Removal of the term "merchant function" throughout and replaced
10		with "Default Supply". NorthWestern no longer uses the term
11		"merchant function" so this proposal is necessary to align with the
12		current nomenclature;
13		2. Same modifications to Section 17 as those made to Schedule No.
14		GTC-1; and
15		3. Added language to clarify process for moving from Non-Core to
16		Core service.
17		
18	Q.	Are there any other tariff rules impacted by the changes described
19		above?
20	Α.	Yes. Given the language added to Schedule No. AGTC-1 concerning the
21		clarification of the process of moving from Non-Core to Core Service,
22		NorthWestern is also revising the definitions of Core Service and Non-
23		Core Service in Natural Gas Tariff Rule 1 to provide clarity regarding each

1		of these services. Exhibits JMM-3 provides the redlined version of Natural
2		Gas Tariff Rule 1.
3		
4	Q.	Regarding the changes to Section 17 of Schedule Nos. GTC-1 and
5		AGTC-1, please provide more details as to how NorthWestern arrived
6		at the proposed language.
7	Α.	NorthWestern had discussion with customers who use the natural gas
8		transmission system regarding the proposed changes to the allocation of
9		capacity found in Section 17 of Schedule Nos. GTC-1 and AGTC-1. After
10		having those conversations, NorthWestern presented draft redlines to the
11		customers for consideration and comment. NorthWestern responded to
12		these comments by incorporating or revising its proposed language in
13		Section 17. The proposed changes presented here are a result of that
14		process.
15		
16	Q.	Does this conclude your testimony?
17	Α.	Yes, it does.

## **VERIFICATION**

This Pre-filed Direct Testimony of Jason M. McClafferty is true and accurate to the best of my knowledge, information, and belief.

<u>/s/ Jason M. McClafferty</u> Jason M. McClafferty