Prefiled Direct Testimony and Exhibits Bradley S. Wenande

Before the South Dakota Public Utilities Commission of the State of South Dakota

In the Matter of the Application of NorthWestern Corporation, d/b/a NorthWestern Energy

For Authority to Increase Electric Utility Rates in South Dakota

Docket No. EL23-\_\_\_\_

June 15, 2023

## TABLE OF CONTENTS

Witness Information	1
Purpose of Testimony	2
Overview of South Dakota Electric Operations	2
Electric Distribution System Safety and Reliability	7
Maintenance and Capital System Needs	14

# EXHIBITS

South Dakota Electric Service Territory Map	Exhibit(BSW-1)
Employee Locations Map	Exhibit(BSW-2)
Recordable and Lost Time Incident Rates	Exhibit(BSW-3)
Outage Performance and History	Exhibit(BSW-4)

1		Witness Information
2	Q.	Please state your name and business address.
3	Α.	My name is Bradley S. Wenande. My business address is 3210 Douglas Ave,
4		Yankton, South Dakota 57078.
5		
6	Q.	By whom are you employed and in what capacity?
7	Α.	I am NorthWestern Energy's ("NorthWestern" or "Company") Director of SD/NE
8		Operations.
9		
10	Q.	Please summarize your education and employment experience.
11	Α.	I am a 1993 graduate of South Dakota School of Mines and Technology. I hold a
12		Bachelor of Science degree in Electrical Engineering. My experience is primarily
13		in the areas of distribution, transmission, and substation
14		engineering/operations/maintenance, business unit management (including
15		personnel, financial accountability, safe work performance, reliability
16		performance), and labor relations/negotiations.
17		
18	Q.	What are your responsibilities as Director of SD/NE Operations?
19	Α.	I am responsible for all aspects of NorthWestern's electric and natural gas
20		distribution systems in South Dakota and Nebraska, including the systems' safe,
21		reliable, and efficient operation; operations planning, engineering, and
22		maintenance.

1		Purpose of Testimony
2	Q.	What is the purpose of your testimony in this proceeding?
3	Α.	My testimony:
4		Provides an overview of NorthWestern's South Dakota Electric
5		Transmission and Distribution system;
6		<ul> <li>Identifies the South Dakota NorthWestern operations workforce and</li> </ul>
7		organization;
8		<ul> <li>Demonstrates NorthWestern's commitment to safe work;</li> </ul>
9		Provides overall reliability information;
10		<ul> <li>Identifies processes that guide Operations and Maintenance ("O&amp;M") and</li> </ul>
11		capital investments necessary for continued reliable service; and
12		• Demonstrates NorthWestern's commitment to future performance.
13		
14		<b>Overview of South Dakota Electric Operations</b>
15	Q.	Please provide a distribution system overview.
16	Α.	The South Dakota electric service territory is shown in Exhibit (BSW-1).
17		NorthWestern provides distribution service from Barnard to the north, Yankton to
18		the south, Blunt to the west, and Bemis to the east. Our distribution system
19		includes:
20		• Primary voltages of 2.4 kilovolt ("kV"), 4.16 kV, 7.2 kV, 12.470 kV, 14.4 kV,
21		24.9 kV, 19.9 kV, and 34.5 kV;
22		<ul> <li>1,619 miles of overhead distribution lines;</li> </ul>
23		• 723 miles of underground distribution lines;

1

•

64,400 electric customers.

2

4		
3	Q.	Please provide a transmission system overview.
4	Α.	The South Dakota Electric Transmission System Map is shown on
5		Exhibit (BSW-1). We provide transmission service for our customers on a
6		system that spans from north of the Aberdeen area at Ellendale, North Dakota
7		where our 115 kV system interconnects with Montana-Dakota Utilities ("MDU")
8		and south approximately 260 miles to Yankton, South Dakota where our 115 kV
9		system interconnects with the Western Area Power Administration ("WAPA") at
10		Gavin's Point Dam. In addition, there are approximately 76 miles of 115 kV lines
11		that represent interties off of the 115 kV mainline at the following locations:
12		Aberdeen to Groton (interconnection with WAPA), Huron to Broadland
13		(interconnection with WAPA), Mitchell to the McCook County Line
14		(interconnection with Northern States Power ("NSP") d/b/a Xcel Energy, and
15		Mitchell to Letcher Substation (interconnection with WAPA).
16		
17		Also, we have the following ownership interest in generation interconnection
18		facilities related to our joint ownership in coal-fired generation facilities:
19		<ul> <li>Big Stone Plant – 18.2 miles of 230 kV;</li> </ul>
20		<ul> <li>Neal 4 Plant – 2.05 miles of 161 kV and 345 kV; and</li> </ul>
21		<ul> <li>Coyote Plant – 23.1 miles of 345 kV.</li> </ul>
22		

Finally, there are 69 kV and 34.5 kV facilities that serve as the main transmission in and around our major load centers. There is also a 34.5 kV facility that travels north-south from Aberdeen to Yankton and, in many places, in the same right-ofway as the 115 kV system. Overall, NorthWestern has 1,265 miles of transmission lines.

6

7 Our South Dakota system is interconnected with the transmission facilities of Otter Tail Power Company; MDU; Xcel Energy Inc.; and WAPA. We also have 8 9 emergency interconnections with the transmission facilities of East River Electric 10 Cooperative, Inc. and West Central Electric Cooperative. We are a transmissionowning member in the Southwest Power Pool ("SPP"), with our transmission 11 12 facilities residing in zone 19 of the SPP footprint. Each year, we review all new or 13 modified transmission assets and transfer functional control of assets that qualify 14 under the SPP Open Access Transmission Tariff to SPP. This annual update 15 goes into effect on April 1st each year. To date, we have transferred control of 16 333 line miles of 115 kV facilities and over 158 line miles of 69 kV facilities. Along with SPP, our South Dakota facilities have ties to Midwest Independent System 17 Operator ("MISO"). We have grandfathered agreements in MISO, which provide 18 19 us the access to move the power from the Coyote, Big Stone, and Neal power 20 plants to our customers. Along with operating the transmission system, SPP also 21 coordinates regional transmission planning for all of its members on an annual 22 basis through its Integrated Transmission Planning ("ITP") process. Our annual

1		participation in the ITP process includes model development, system needs
2		assessment, and solution development to address identified needs.
3		
4	Q.	Please describe NorthWestern's South Dakota Operations/Substation
5		workforce and organization.
6	Α.	The South Dakota Operations workforce is comprised of:
7		• 64 – craft workers
8		• 7 – Controller / Dispatchers
9		• 7 – Engineer / Estimators
10		• 9 – Supervisor / Superintendents
11		• 4 – Safety / Vegetation / Real Estate support staff
12		• 3 – Operations business unit leaders
13		NorthWestern reorganized its South Dakota Operations in 2017 to a
14		functional-based organization. The new organizational structure placed
15		Supervisor and Engineering resources into locations where they previously
16		had not been present. This deepened the overall bench strength of the
17		organization, reducing risk of institutional knowledge loss when any one
18		employee left the Company. This structure aligned operations in South
19		Dakota with those in NorthWestern's Montana service territory. This provided
20		greater opportunity to share best practices and support functions across both
21		jurisdictions.
22		

1 NorthWestern's South Dakota Operations workforce is structured and 2 positioned for efficient day-to-day service and emergency response. We 3 augment our full-time Operations staff by using contractors who perform capital investment work and some planned or emergency maintenance. It is 4 5 not cost-effective to staff for the "peaks" of our operations or to own the 6 specialized equipment that contractors offer. 7 Exhibit (BSW-2) shows locations where the 64 craft employees are 8 9 stationed, performing day-to-day O&M and capital work and responding to 10 emergencies. This exhibit demonstrates NorthWestern's emergency response 11 preparedness in terms of distance, classifications and assistance or backup 12 potential. 13 14 Implementation of an Automated Metering Infrastructure ("AMI") platform in 15 2019 – 2020 impacted Operations staffing. With this automated technology in 16 place, NorthWestern eliminated the Meter Reader classification in South 17 Dakota. Some of these employees moved into other roles within the Company while others elected to retire or leave the organization. 18 19 20 NorthWestern has a staffing plan in place to address future Operations 21 employee attrition. This plan takes many factors into account such as known 22 retirements as indicated by employees, projected retirement dates if not 23 indicated by employees, organizational structure and work load considerations

1 for each location (apprentice versus journey level), lead time required for 2 transfer of knowledge, costs of "overlap" when the current and replacement 3 employees are working and customer service expectations. This plan is updated annually and is generally evolving as staffing concerns change 4 5 throughout the course of the year. 6 7 NorthWestern's collective bargaining agreement covers January 1, 2022 through December 31, 2025. It includes a Seasonal Laborer classification, 8 9 which acts as the pipeline to fill the open craft positions identified in the staffing plan and attract new talent to the Company. This allows for an "on the job" 10 11 interview prior to candidates being offered regular full-time employment. 12 13 In large-scale outage events, NorthWestern has the ability to request 14 assistance from a number of sources. This includes our Montana operations 15 staff, various line contractors as well as other regional utilities through mutual 16 assistance groups. Over the years, we have both requested assistance from 17 and provided assistance to these other utilities. Agreements have been 18 established to facilitate response to mutual aid requests. 19 20 **Electric Distribution System Safety and Reliability** 21 How does NorthWestern address safety in the workplace? Q 22 Maintaining a safe work culture is one of our highest priorities at NorthWestern. Α. 23 Our leadership team seeks to guide employees to internalize safety, not only for

their own benefit but for that of their coworkers. The Company drives this
 through a number of objectives and approaches:

3	Each employee starts their day with 15 minutes of dynamic warm-ups
4	through the MoveSafe program. MoveSafe has been trained to all
5	employees with the ultimate goal of reducing strain and sprain injuries.
6	Distribution Operations employees have been trained on the principles of
7	Human Performance Improvement ("HPI"). This program, in short, equips
8	us with the understanding that:
9	<ul> <li>Humans are fallible;</li> </ul>
10	<ul> <li>Error likely situations are predictable, manageable and preventable;</li> </ul>
11	and
12	$\circ$ Events (incidents) can be avoided by understanding the reasons
13	why mistakes occur and applying lessons from the past.
14	<ul> <li>Development of a safety plan with requirements for employees at all levels</li> </ul>
15	(tasks, involvement, reviews and accountability).
16	<ul> <li>A wide variety of online and in-person training.</li> </ul>
17	Incident investigation and review at all levels of the organization (applying
18	HPI principles).
19	• Executive team periodically hosts a "Safety stand-up" all-hands safety
20	discussion.
21	<ul> <li>Monthly safety meetings at each major location.</li> </ul>
22	<ul> <li>Encouraging local safety committee activities.</li> </ul>

- 1 Investing in advanced fleet, tools, equipment and personal protective • 2 equipment. Recognizing and addressing safe and unsafe behaviors through teaching, 3 4 observing, coaching and, if necessary, discipline. 5 6 Exhibit (BSW-3) provides a snapshot of South Dakota Operations safety results 7 dating back to 2015. As you will see, safety performance early in this period was 8 exemplary, with no lost-time and few recordable incidents through 2019. In 9 2020, the COVID-19 pandemic struck, dramatically shifting our daily operations. 10 To protect the health of our work force, meetings among employees and 11 employee groups were limited. This unfortunately included many of the safety 12 efforts described above as well as normal daily interactions between employees, 13 supervisors and management. You can see the pandemic's negative impact to 14 NorthWestern's safety results in the exhibit. The Company resumed normal 15 operations in early – mid 2022. During the pandemic, NorthWestern relied 16 heavily on the social and emotional capital of the work groups to sustain 17 effectiveness. By the end of the emergency status, much of that capital had 18 been expended. Leadership has since been working diligently to restore the 19 safety culture to pre-pandemic levels. 20

21

Q How do you measure, record, and track reliability on the system?

22 Α. We measure, record, and track, overall reliability on the total delivery system to 23 our customers in accordance with the Institute of Electrical and Electronics

1	Engineers ("IEEE") Standard 1366: Guide for Electric Power Distribution
2	Reliability Indices. Exhibit(BSW-4) depicts NorthWestern's outage, System
3	Average Interruption Duration Index ("SAIDI"), System Average Interruption
4	Frequency Index ("SAIFI"), and Customer Average Interruption Duration Index
5	("CAIDI") performance history. Also included is a chart representing Major Event
6	Days and Catastrophic Days.
7	
8	In simple terms, SAIDI represents the average outage in minutes for each
9	customer served. SAIFI is the average number of interruptions that a customer
10	would typically experience in a year. CAIDI is the average outage duration any
11	given customer would experience. CAIDI is also typically thought of as the
12	average restoration time. Significant items to note on the charts include:
13	<u>Outages</u> :
14	• More outages occur at the distribution level than the transmission level.
15	Factors contributing to this are:
16	<ul> <li>Multiple transmission feeders into critical substations provide</li> </ul>
17	redundant energy sources.
18	$_{\odot}$ Transmission automation and protection schemes have the
19	capability of isolating faulted lines or substations, preserving
20	service continuity or returning to service more quickly.
21	• The number of outages from 2016 through 2022 has fluctuated year over
22	year but has been on a downward trend since 2019 – 2020.

1	<ul> <li>Major Event Days ("MEDs") were recorded in each year of 2016 – 2022.</li> </ul>
2	The majority of these were weather driven events. Notably, SPP grid
3	conditions, along with the extreme cold weather, were at the heart of the
4	February 2021 MED.
5	Catastrophic Event Days were recorded twice in 2022, driven by derechos
6	in eastern South Dakota. Catastrophic days are measured as seven times
7	the MED value threshold.
8	<ul> <li>In addition to weather, outage counts in 2019 and 2020 were impacted by</li> </ul>
9	an increase in transmission and equipment failure outages. Reliability in
10	the Chamberlain area was a specific area of concern during this period.
11	
12	<u>SAIDI (</u> in minutes):
13	South Dakota averaged 88.26 minutes without MEDs and 119.26 minutes
14	with MEDs between 2016 and 2022.
15	<ul> <li>Edison Electric Institute ("EEI") identifies first quartile SAIDI</li> </ul>
16	performance at less than 95.9 minutes without MEDs, or less than
17	150.8 minutes with MEDs.
18	$_{\odot}$ 2021 and 2022 SAIDI performance, with and without MEDs, was in
19	first quartile.
20	
21	SAIFI (frequency):

1		• The South Dakota SAIFI charts, with and without MEDs, demonstrate that
2		the number of customers experiencing outages is trending downward from
3		its peak in 2019.
4		
5		<u>CAIDI</u> (in minutes):
6		<ul> <li>South Dakota's 2016 – 2022 CAIDI average without MEDs was 78.9</li> </ul>
7		minutes. Including MEDs, the average was 89.4 minutes.
8		• EEI identifies first quartile CAIDI performance at less than 95.9
9		minutes without MEDs, or less than 118.2 minutes with MEDs.
10		CAIDI performance excluding MEDs was in first quartile for the 2016 –
11		2022 reporting period with the exception of 2021. Performance including
12		MEDs was in first quartile for the entirety of the same window of time.
13		CAIDI excluding MEDs in 2022 was reduced from 2020 – 2021 results to
14		be in line with 2018 – 2019 figures.
15		Major events have significant impact to outage duration as demonstrated
16		by the 2022 CAIDI including MED data.
17		
18	Q	How does NorthWestern plan to maintain or improve reliability in the
19		future?
20	Α.	NorthWestern has several initiatives in place or in development that will have a
21		beneficial impact to reliability for our customers going forward. These include:

1	<ul> <li>NorthWestern joined the SPP in 2015. SPP is a regional transmission</li> </ul>	i -
2	organization mandated to, among other things, ensure reliable supplie	s of
3	power and adequate transmission infrastructure.	
4	• The Company is developing a roadmap to further employ the AMI	
5	technology platform. This will include outage awareness and response	е
6	through our connectivity with electric meters. Proactive response to	
7	meters out of power will decrease outage durations.	
8	We are developing a Distribution Operations Control Center ("DOCC")	,
9	which will utilize Advanced Distribution Management System ("ADMS"	)
10	software to drive automation further into our distribution system. Once	) up
11	and running, Controllers at the DOCC will be able to monitor and resp	ond
12	to the distribution system on a 24/7 basis. With additional SCADA visi	bility
13	and operability on the system, they will be able to respond to and mini	mize
14	the number of customers impacted by outages.	
15	The Company today monitors worst performing transmission and	
16	distribution circuits and substations. With this data, solutions to impro-	ve
17	performance are engineered and implemented. For example, we rece	ntly
18	completed a project to improve performance of the 69 kV line from Mo	unt
19	Vernon to Chamberlain.	
20	• Since the electric grid emergency events of February 2021, NorthWes	tern
21	has developed a load shed plan specific to our system. Unlike the 202	21
22	event, this plan allows us to systematically shed load, limiting the impa	ict
23	to critical facilities and infrastructure. System Operators have been	

1		trained to execute the plan when called upon. Testing exercises through
2		SPP have proven the plan to be functional and effective in meeting the
3		targeted load reduction.
4		The Company will be kicking off construction of a joint transmission
5		switchyard with East River Electric, near Chamberlain. This switchyard
6		will give NorthWestern a redundant feed to the Chamberlain area,
7		bolstering reliability in the region. This project is on track for completion in
8		2023.
9		
10		Maintenance and Capital System Needs
11	Q.	Please describe how NorthWestern determines and addresses O&M system
12		needs.
13	Α.	O&M work and related expense are driven by several factors including regulation
14		(codes, laws, and rulings), reliability performance (outage experiences), various
15		inspections (checks for proper operation/condition) and preventative
16		maintenance (service, repairs).
17		
18		NorthWestern determines O&M system needs by:
19		<ul> <li>Identifying worst-performing lines and equipment through outage tracking.</li> </ul>
20		<ul> <li>Identifying compliance issues through awareness training and day-to-day</li> </ul>
21		observations.
22		<ul> <li>Tracking equipment performance/expense.</li> </ul>

1	• Testing substation transformers (winding, oil, gas, etc.).
2	Inspecting distribution lines to identify deficiencies that are subsequently
3	addressed through priority ratings. Examples of deficiencies include
4	broken insulators, cracked porcelain cutouts and arrestors, broken tie
5	wires, split cross arms, loose or missing grounds, and rotten anchor rods.
6	Performing quarterly transmission line patrols to identify and repair
7	deficiencies.
8	• Performing substation checks that include a check on voltage regulators.
9	The checks can reveal control problems, internal linkage problems, or oil
10	contamination and leaks.
11	<ul> <li>Administration of a vegetation management program that addresses trees</li> </ul>
12	growing near the transmission or distribution system. This program is on
13	a schedule for all circuits over a seven-year cycle. An internal vegetation
14	expert oversees this program which is completed through use of contract
15	line clearance professionals. We will also "hot spot" areas in need of
16	immediate trimming when at locations not included in the cycle trimming
17	planned for that season.
18	
19	NorthWestern addresses O&M system needs by:
20	Correcting outage conditions, including "animal guarding", which reduces
21	the likelihood of an animal-related outage (squirrel, bird, etc.).
22	• Replacing line components (wire ties, insulators, porcelain cutouts,
23	arrestors, anchors, or ground wires) on lines exhibiting poor reliability.

1	<ul> <li>Replacing pad-mounted equipment experiencing severe casing rust.</li> </ul>
2	<ul> <li>Performing maintenance on substation equipment (changing contacts,</li> </ul>
3	filtering/changing oil, replacing bushings, and replacing insulators)
4	exhibiting wear or poor test results.
5	<ul> <li>Making physical changes when line clearances do not meet codes.</li> </ul>
6	<ul> <li>Locating underground facilities to prevent "dig-ins" where public or</li> </ul>
7	employee safety is at risk. NorthWestern will perform a "standby" function
8	when excavation is taking place near High Profile lines such as high
9	voltage underground cable. This process places a Company
10	representative on the job site, observing and assuring the excavation
11	around our facilities is completed safely. A mix of internal and contract
12	resources are used to carry out the locating task.
13	Engineering line solutions that reduce exposure risk (vehicular, electrical
14	contact) for the public and employees.
15	Ensuring adequate vegetation clearances for safety and reliability (tree
16	trimming and removal).
17	
18	In summary, O&M is addressed by identifying and prioritizing the work. Each
19	Division has a work plan based on known and anticipated O&M activities.
20	Expense budgets are managed by forecasting the prioritized work each month
21	and then executing on that plan.
22	

Q. Please describe how NorthWestern determines and addresses capital
 system needs.

A. NorthWestern maintains a five-year capital investment plan. Capital projects are
 introduced to this plan from a number of sources. Distribution Operations
 employees with local situational awareness may submit project ideas. Other
 sources include our Asset Management team who often bring forward capacity related projects. Our Substation, Transmission and Production groups also
 generate projects for consideration.

9

10 Some capital system needs are addressed through an inspection process. This 11 is the case for our pole replacement programs. A portion of our transmission and 12 distribution pole plant is inspected each year. The inspection results then drive 13 pole replacement or reinforcement activities that take place the following year.

14

Each project brought forward for consideration is assigned a ranking using criteria such as safety, regulatory requirement, customer need, outage restoration time, division priority, and equipment condition. Projects are then prioritized by ranking total score. Those falling within the funded priority level are considered for approval into the budget cycle. Those with rankings outside of the funded priority level are moved out in the five-year plan.

21

Each Division is assigned oversight of an annual capital budget and projects are managed at that level. Local resources are heavily involved in the engineering

1		and project management phases of projects. The overall capital budget and
2		budget process is managed by our Central Construction department.
3		
4	Q.	Please provide a summary of major capital electric projects completed or
5		initiated during the past five years – including a discussion of why they
6		were needed.
7	Α.	Projects in for our South Dakota operations include:
8		• AMI – This project replaced all electric meters in South Dakota. The AMI
9		platform established two-way communication with meters that were
10		formerly manually read. The ability to capture meter data on an
11		immediate basis and remotely turn service on and off has provided
12		immediate benefits. These include situational awareness from meter data
13		and reduced expenses from meter reading labor and fewer truck rolls.
14		Customer experience will be heightened through expanded use of the AMI
15		platform in the future.
16		Aberdeen 115 kV system – Multiple projects have improved our 115 kV
17		system near Aberdeen since 2018. Our Industrial Park Substation was
18		upgraded, three miles of new 115 kV line were constructed to complete a
19		loop between substations and a new switchyard was built to improve
20		reliability. These projects replaced aging infrastructure while upgrading
21		and expanding the transmission system in the area.
22		Transmission worst circuit program – This project addressed two
23		underperforming 69 kV segments in South Dakota. One from Huron to

1	Highmore and the other from Mount Vernon to Chamberlain. Project
2	scope included LiDAR survey, pole replacement and circuit rebuild work.
3	Groton Switchyard – The switch yard was rebuilt with new control building
4	and two new 69 kV breakers. Communications, relaying and metering
5	were upgraded as well. Age and condition of the control building and
6	breakers drove the project.
7	• LED conversion – This is a multi-year project to replace NorthWestern-
8	owned HID street lights and reddy guards to LED technology. This
9	includes structure and underground cable replacement where necessary.
10	Replacement of the HID street lights is needed due to their becoming
11	obsolete and to realize the benefits of more efficient lighting.
12	Approximately 17,000 lights will be converted over the three-year project
13	that started in 2022.
14	<ul> <li>West Port to Columbia distribution rebuild – Ten miles of overhead</li> </ul>
15	distribution feeder were rebuilt due to reliability concerns and age /
16	condition of the line. The new design incorporates both overhead and
17	underground distribution due to clearance concerns.
18	Yankton East Substation – Yankton East Substation was expanded by
19	adding three distribution circuits at the site. The project was driven by
20	aging equipment and reliability performance of East Plant Substation.
21	East Plant Substation had the highest number of customers on a single
22	circuit in South Dakota. The third feeder reduced the total number of
23	customers relying on one circuit and improved the reliability of the system.

1		Distribution pole replacement program – An outside contractor inspects
2		distribution pole plant each year. The inspection provides condition
3		ratings for each pole. Those that do not meet condition standards are
4		replaced. This proactive approach eliminates reactive work and outages
5		from poles failing while in service.
6		Underground cable replacement program – This is a proactive project to
7		replace bare concentric underground primary cable and live-front
8		transformers. This removes some of the oldest infrastructure from the
9		distribution system and eliminates reactive work and outages from cable
10		failures.
11		ADMS – This involves the implementation of ADMS software platform at
12		NorthWestern as discussed in the reliability section of this testimony. This
13		includes formation of the DOCC and development of training for new
14		Controller classification.
15		Chamberlain Junction Switch Yard – This project is slated for 2023
16		construction. NorthWestern and East River Electric identified a joint
17		solution to area transmission shortfalls and are working together to
18		construct this project. This eliminates the radial nature of NorthWestern's
19		69 kV line between Mount Vernon and Chamberlain.
20		
21	Q.	Does this conclude your testimony?
22	Α.	/es, it does.