



ANR Monthly Customer Update

August 2019



Safety moment – Hurricane preparedness

- Stock up on gas and keep your car full
- Bring patio furniture and outdoor items inside
- Protect your home to reduce damage
- Turn off gas, water and other utilities if recommended
- Make sure you have a battery powered radio
- Have cash on hand
- First-aid kit available
- Cell phone chargers available
- Stock up on food and supplies
- Understand your insurance policy
- Stock up on infant and pet supplies as needed

Agenda

Storage Update

Jeffery Keck, Operations Planning

Operational Update

Michael Gosselin, Gas Control & Planning

Noms & Scheduling

DeAnna Parsell, Noms & Scheduling

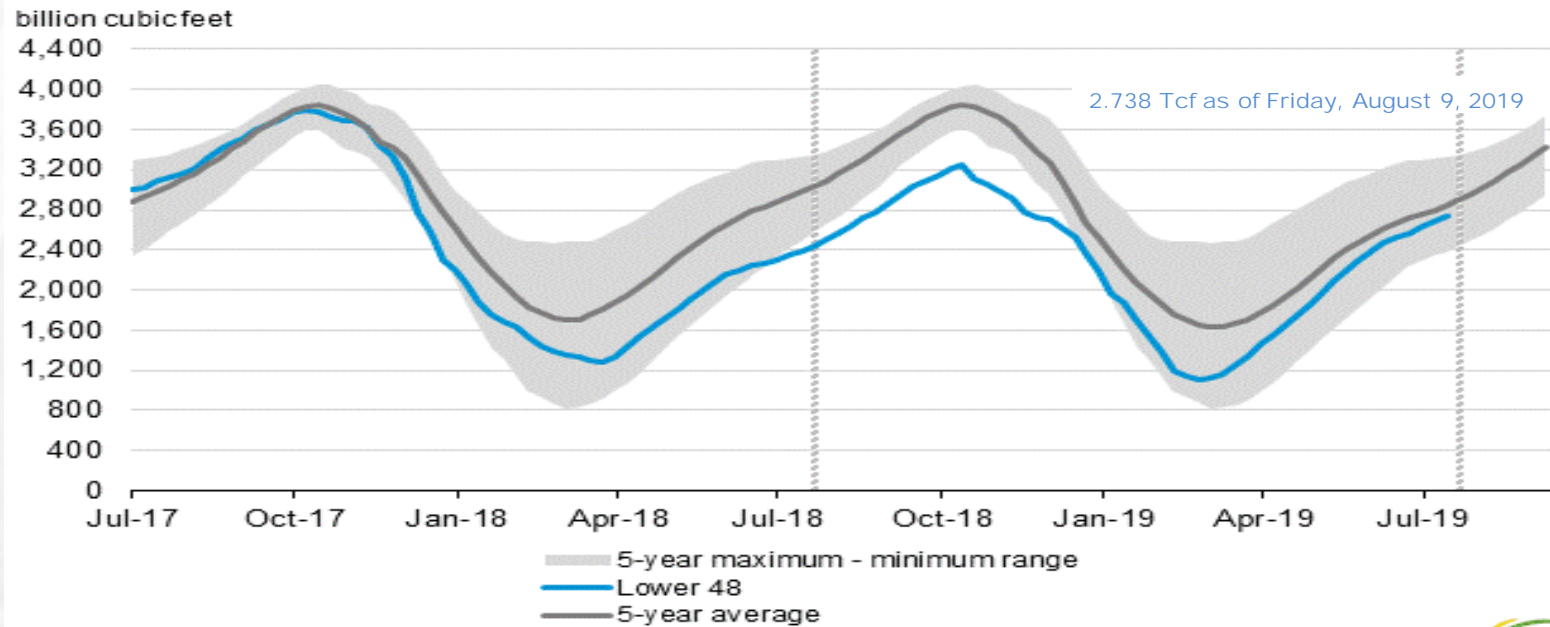




Storage Update
Jeffery Keck – Operations Planning

EIA Storage Position: The big picture

Working gas in underground storage compared with the 5-year maximum and minimum



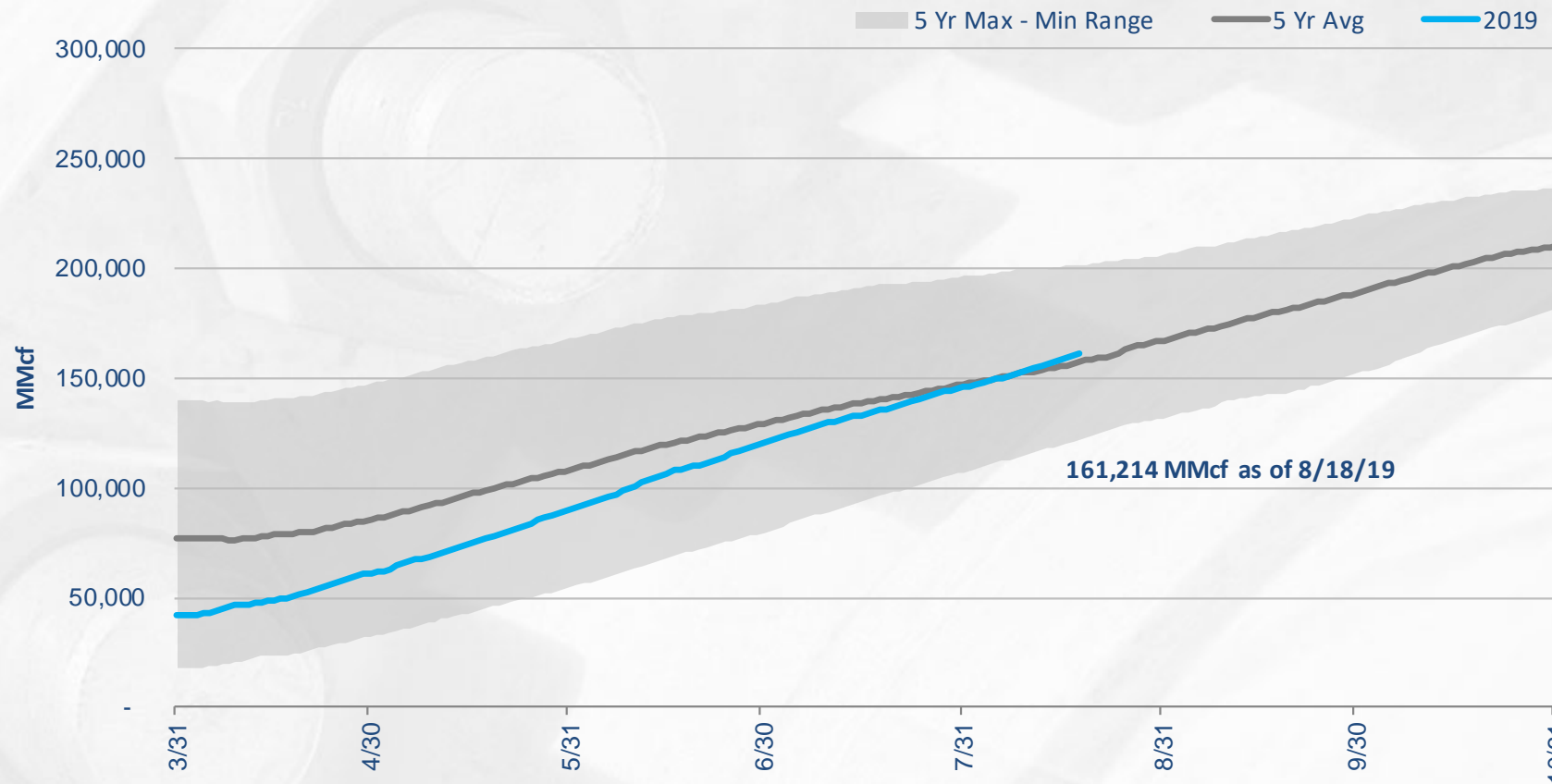
Source: U.S. Energy Information Administration



Date	ANR's Reported EIA Storage Inventory (MMcf)
August 9, 2019	145,417
August 10, 2018	109,988
August 11, 2017	187,027

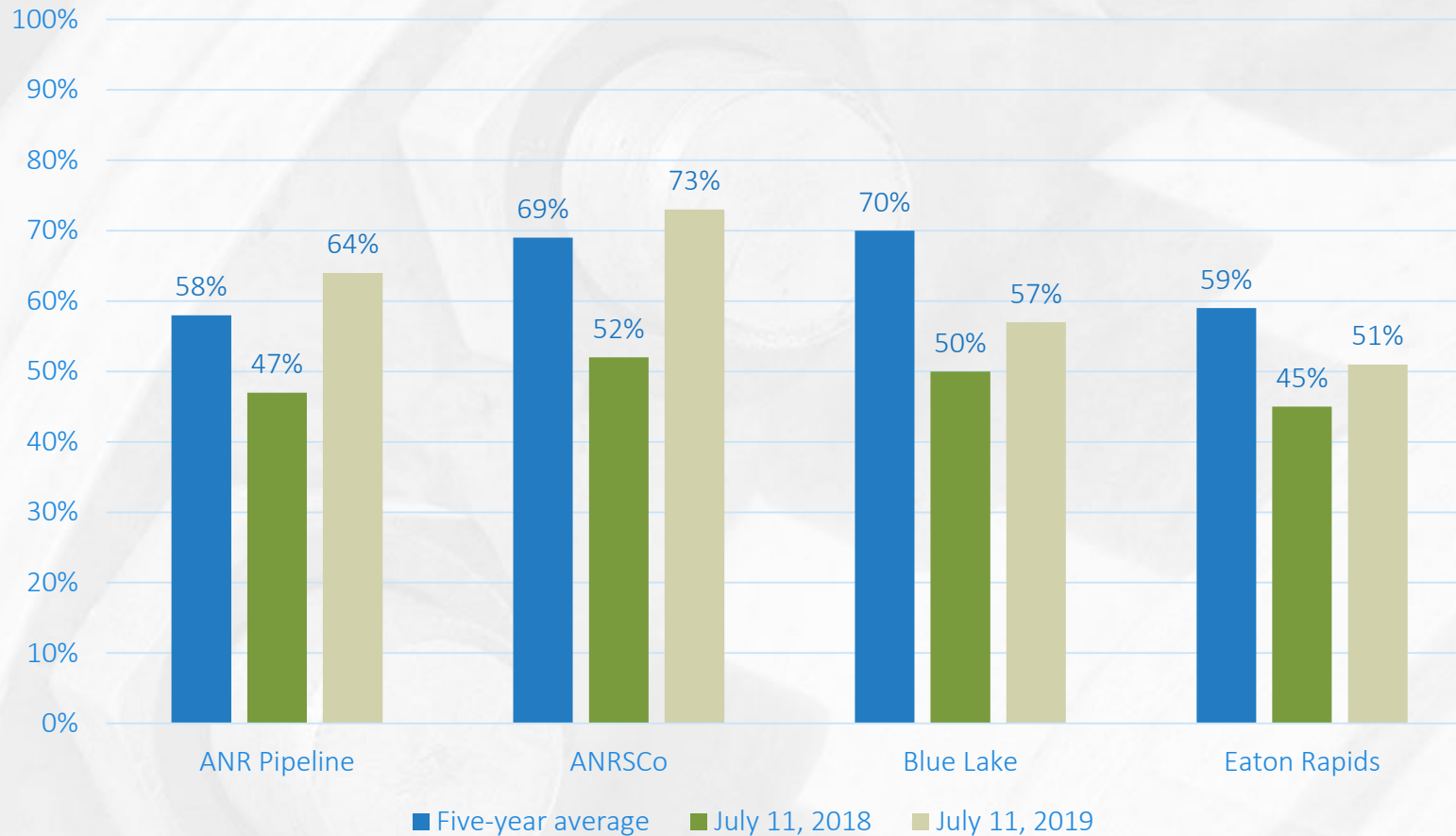
Storage Position

Working gas in underground storage compared with the five-year maximum and minimum

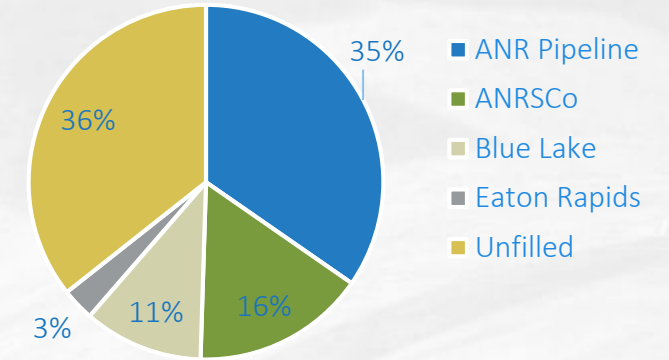


Storage inventory – 2019 vs. 2018

Physical Inventory Positions as of August 18



% of Certificated Storage Capacity



Percent of Storage Capacity	2019 Percent Full	YOY Difference (2018-19) August 18
ANR Pipeline	64%	17.4%
ANRSCO	73%	20.6%
Blue Lake	57%	7.0%
Eaton Rapids	51%	6.2%

Storage Operations

- The current volume in storage is above the five-year average level by about 4-Bcf.
- From July 16 – August 18, storage activity averaged an injection over 0.8-Bcf/d, which reflects a continued strong injection pattern. While injections have been consistent, it has varied from about 500-MMcf/d up to about 1.2-Bcf/d.
- ANR met all firm customer demand for storage activity during this period.
- Capacity is 64% full about 2/3 of the way through the summer season.
- Injections are expected to increase starting in September. ANR believes it is positioned well to meet all firm demand for injection.



Operational Update

Michael Gosselin – Gas Control & Operations Planning

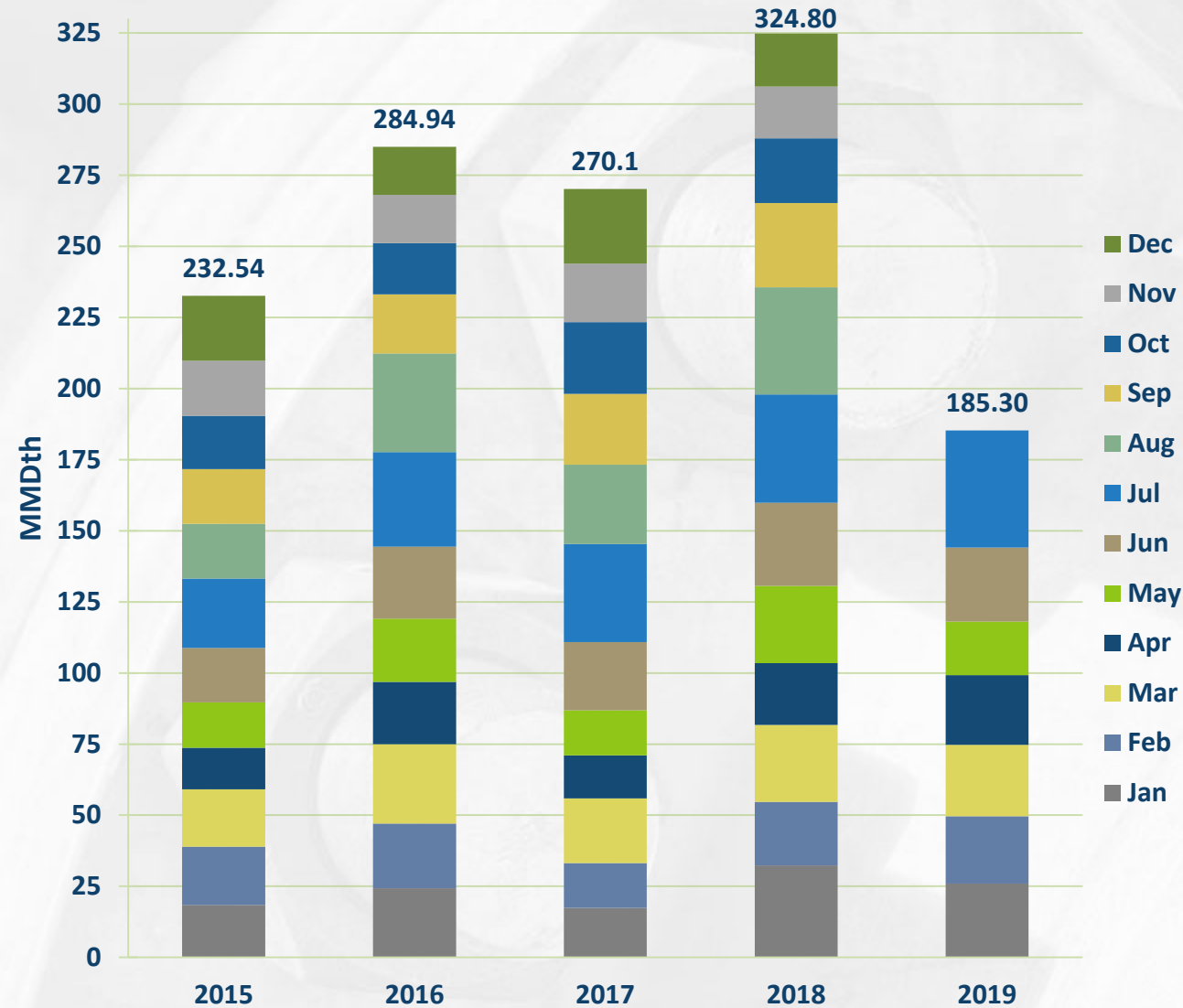
ANR July average daily system flows



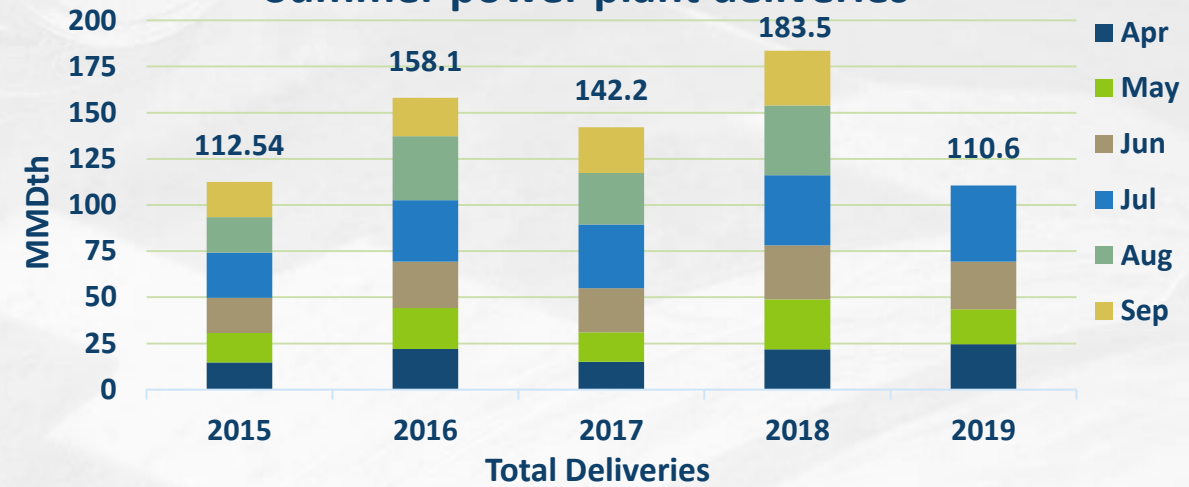
- 1 SWML Northbound flowed 95 percent full, with scheduled volumes averaging 585-MDth/d
- 2 Wisconsin deliveries averaged 494-MDth/d
- 3 Michigan Leg South through St. John Eastbound flowed an average volume of 710-MDth/d
- 4 Woolfolk averaged a northbound flow of 576-MDth/d
- 5 ANR Pipeline storage averaged an injection of 693-MDth/d
- 6 Deliveries between Eunice and Patterson averaged 920-MDth/d. Eunice Southbound averaged 47-MDth/d and deliveries to Duralde averaged 294-MMcf/d. ANR received 124-MDth/d from offshore at Patterson
- 7 Southbound flows through Jena averaged 1,118-MDth/d
- 8 REX Shelbyville receipts averaged 729-MDth/d and Westrick Interconnect averaged 1,322-MDth/d
- 9 Deliveries to MichCon at Willow Run averaged 575-MDth/d

ANR monthly deliveries to power plants

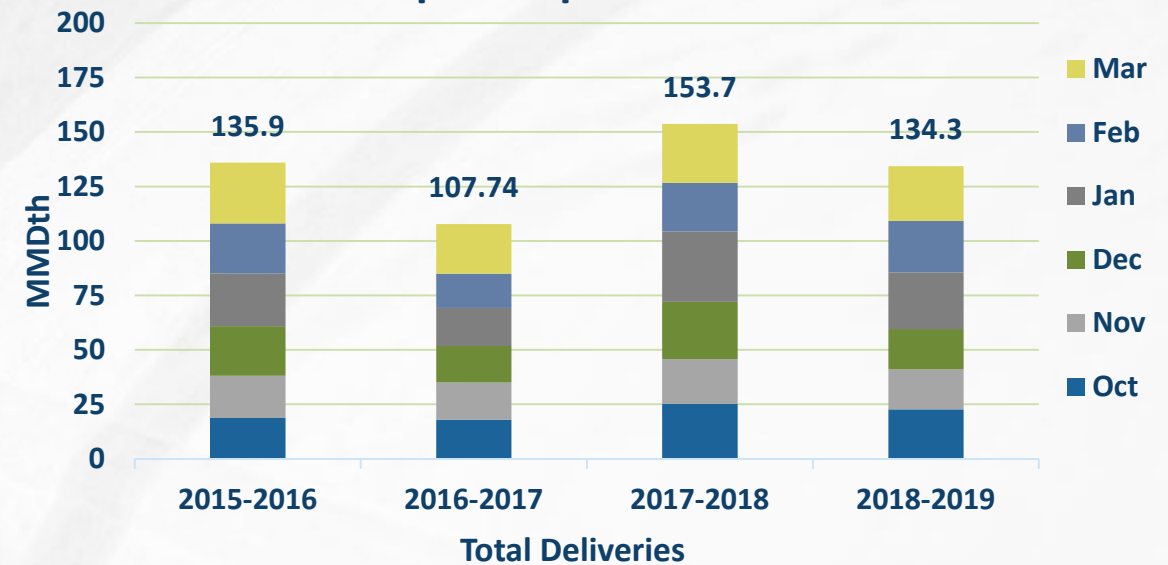
Total monthly power plant deliveries



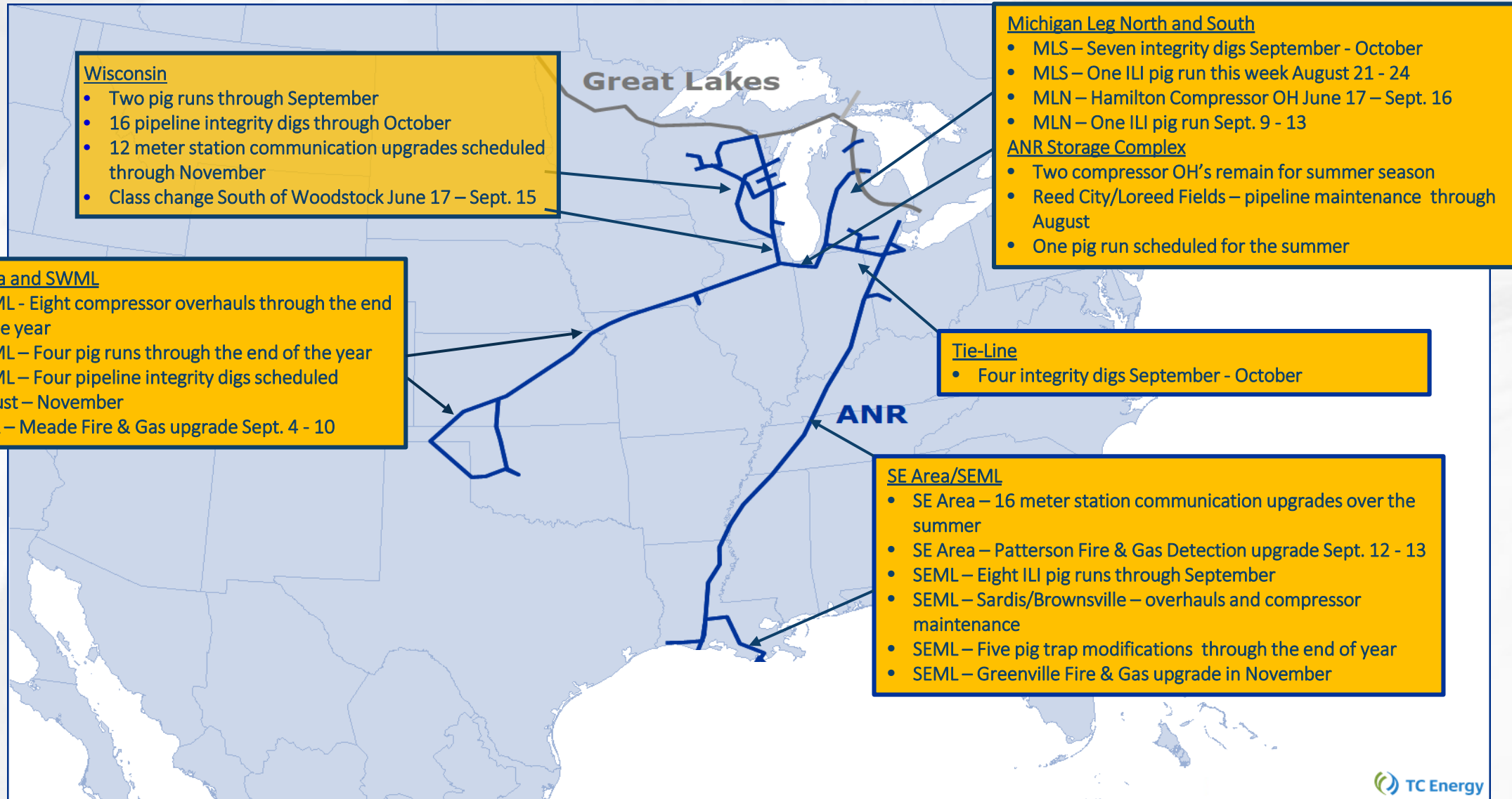
Summer power plant deliveries



Winter power plant deliveries



2019 ANR Mainline maintenance projects



ANR posted capacity impacts – August 2019

Red River (Rec) Int (LOC #185837) PSO ID #9335

Firm Primary only August 3 – Sept. 1

Mooreland Northbound (LOC #9505448) PSO ID #9362

36-MMcf/d (leaving 170-MMcf/d August 27)

Beaver-CIG (REC FR CIG) (LOC #16435) PSO ID #9363

40-MMcf/d (leaving 120-MMcf/d available) Sept. 4 – 10

E.G. Hill from Gageby (LOC #226643) PSO ID #9363

25-MMcf/d (leaving 200-MMcf/d available) Sept. 4 – 10

Greensburg/CP (REC) (LOC #385402) PSO ID #9363

570-MMcf/d (leaving 75-MMcf/d available) Sept. 4 – 10

ANR posted capacity impacts – August 2019

SWML Northbound (LOC#226630) CN ID #9366

100-MMcf/d (leaving 589-MMcf/d available) August 21 – 22

45-MMcf/d (leaving 644-MMcf/d available) August 23 – 26

55-MMcf/d (leaving 634-MMcf/d available) August 27

45-MMcf/d (leaving 644-MMcf/d available) August 28 – Sept 3

70-MMcf/d (leaving 619-MMcf/d available) Sept. 4 – 10

20-MMcf/d (leaving 669-MMcf/d available) Sept. 11 – 22

100-MMcf/d (leaving 589-MMcf/d available) Sept. 23 – 30

Joliet NGPL Receipt (LOC# 2610) & Youngs Road Delivery (LOC# 523090) PSO ID #9339

Firm Primary only August 19 – 23

St. John Eastbound (LOC ID #226633) PSO ID #9338

400-MMcf/d (leaving 859-MMcf/d available) August 19 – 23

Bridgman Northbound (LOC #226632) CN ID #9351

325-MMcf/d (leaving 1276-MMcf/d available) June 17 – Sept. 16

ANR posted capacity impacts – August 2019

Eunice Total Location (LOC #505592) PSO ID #9365

115-MMcf/d (leaving 1,060 MMcf/d available) August 21 – 26

Jena Southbound (LOC #9505489) PSO ID #9346


120-MMcf/d (leaving 1060-MMcf/d available) August 20 – 26

Cottage Grove Southbound (LOC #505614) CN ID #9349

100-MMcf/d (leaving 1049-MMcf/d available) August 16 – Oct 31

Outage postings

- Service impacts are estimates. Actual nominations, markets, weather and pipeline conditions determine any level of curtailments.
- Projects may be added, altered, delayed or cancelled. Emergent work cannot be planned and will happen from time to time.
- Notice of such planned work, including additions or changes, will be provided via a posting under the Planned Service Outage (PSO) category in GEMS. Emergent work will be posted under the Critical Notice category as soon as possible.



ANR Nominations & Scheduling
DeAnna Parsell – Noms and Scheduling

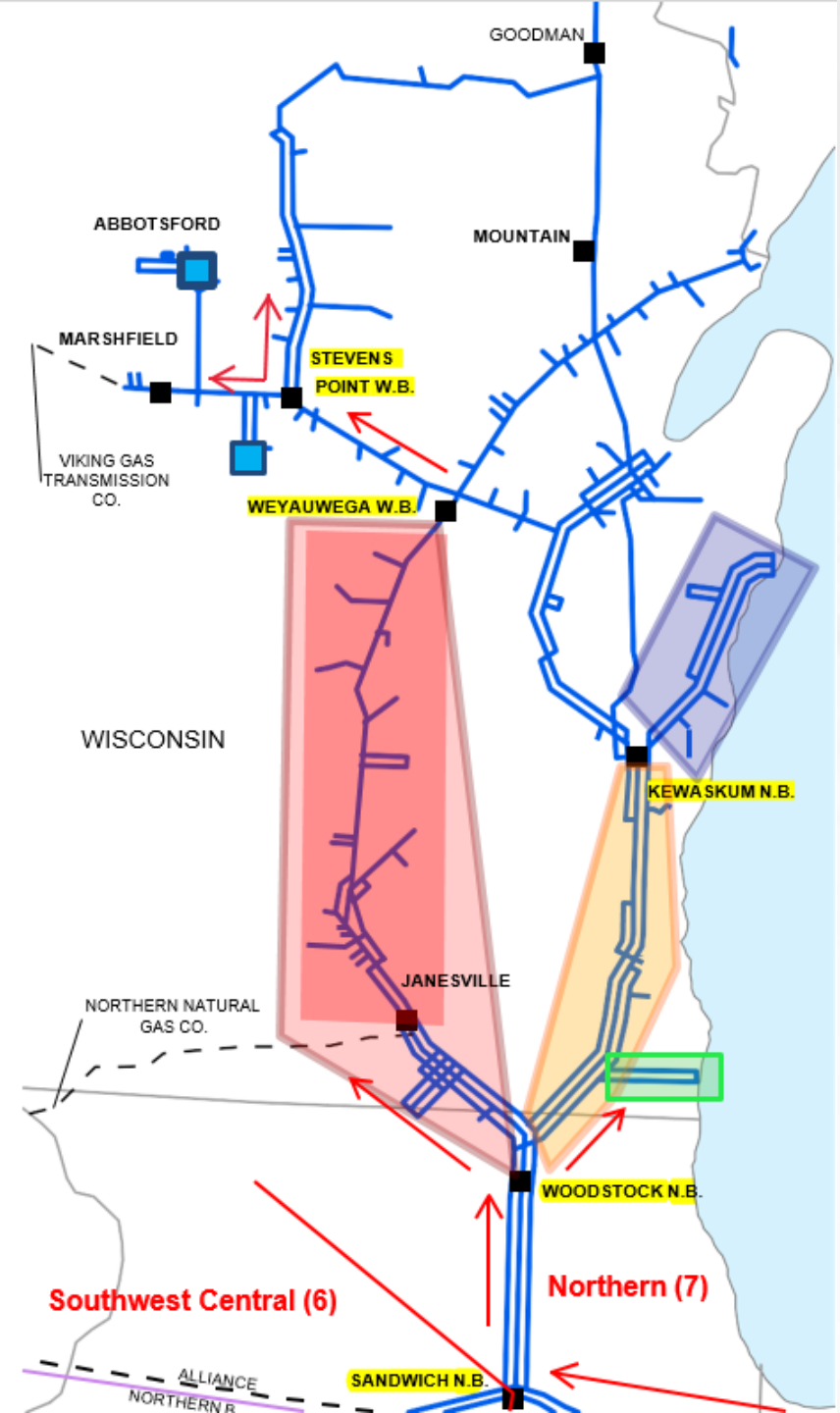
Wisconsin area constraints

Flow Throughs:

- Sandwich Northbound
- Woodstock Northbound
- Kewaskum Northbound
- Stevens Point Westbound
- Weyauwega Westbound

Groups and Points:

- Two Rivers Lateral (Group)
- Madison Lateral (Group)
- Madison Lateral North (Group)
- Milwaukee Lateral (Group)
- Racine Lateral (Group)
- Wisconsin Rapids (Point)
- Abbotsford/Edgar (Point)



Extreme Condition Situation notices – Phased philosophy

During peak winter periods, ANR can declare an Extreme Condition Situation when:

- Any portion of ANR's system throughput approaches capacity
- Extreme weather conditions exist
- ANR experiences operating pressures that can be significantly greater or less than normal operations, such that ANR's ability to receive or deliver quantities of gas to meet service obligations is impaired.

To communicate these Extreme Conditions to our Customers, ANR uses phased philosophy when posting Extreme Condition Situation Critical notices as follows on the next two slides.

Note that the guidance items presented for these phases are subject to change at ANR's discretion in order to best ensure system integrity.

Extreme conditions - Phase 1 and 2

Phase 1: Post a weather advisory indicating colder weather is forecasted & that shippers should align receipts and deliveries to minimize imbalances to support system integrity.

- Guidance for notice is forecast for Green Bay, Madison & Milwaukee, Wisc., where high temperatures are **less than 20° F for two or more consecutive days.**

Phase 2: Post declaration of Extreme Condition Situation indicating the area(s) of ANR's system that are affected, typically ANRs Northern Market Area (ML7).

- Guidance for notice is forecast for Green Bay, Madison & Milwaukee, Wisc., where average temperatures are **less than 15° F for two or more consecutive days** or other operational conditions exist.

Actions and impacts associated with **Phase 2** notices could include some or all the following:

- Indicate services that are required to be on uniform hourly takes over a 24-hour period.
- Indicate services that are required to be at their contractual hourly rate.
- Indicate ITS-3 will be approved on a best efforts basis and will flow based on the approved nominated hourly rate.
- Indicate limitation or denial of operational flexibility.
- Indicate ETS & FTS-3 Secondary nominations will flow on a uniform hourly basis.
- Limitation of Interruptible & Overrun Transportation Services including MBS.
- Deny Incremental ITS-3 Nominations.
- Unauthorized Overrun will not be permitted

Extreme Conditions - Phase 3 and 4

Phase 3: Post declaration of Extreme Condition Situation indicating the area(s) of ANR's system that are affected.

- Guidance for notice is forecast for Green Bay, Madison & Milwaukee, Wisc., where **average temperatures are less than 10° F**, nominations exceed 90% of the Wisconsin Contracted Capacity or other operational conditions exist.

Actions and impacts associated with **Phase 3** notices could include items from Phase 2 and some or all the following:

- No interruptible, overrun or MBS Withdrawal Services in the area affected by the notice.
- Firm Secondary services will be scheduled up to the posted Operational Capacity in the area affected by the notice.
- No Firm Secondary services will be scheduled in the area affected by the notice.
- Indicate No Operational Flexibility for Power Plant, must flow based on contractual rights.
- Indicate that FTS-3 customer must flow at their contractual hourly profile

Phase 4: Issuance of an **OFO** – Operational Flow Order.

- Guidance for an OFO Notice is System Integrity Requirements or Determination of Unacceptable Shipper(s) behavior.

Actions and Impacts to be specified in the OFO



Questions?

ANR Customer Assistance

For further customer assistance concerning scheduling priorities related to your specific firm service agreement(s), firm service rights and features, GEMS new user training, virtual and face-to-face meetings, etc., please contact the ANR Noms & Scheduling Team:

Toll Free: 1-800-827-5267

Group Email: ANR_Noms_Scheduling@tcenergy.com

Web address for the ANRPL Tariff: www.anrebb.tcenergy.com