

A photograph of an industrial facility, likely a power plant or refinery, featuring a complex network of large, white, insulated pipes supported by a dark metal framework. The ground is covered in gravel. The sky is blue with scattered white clouds. The perspective is from a low angle, looking down a long, straight path formed by the pipes and structural beams.

ANR Monthly Customer Update

January 2020





Safety Moment

According to the National Fire Protection Association, nearly 17,000 fires that are caused by home clothing dryers are reported each year. Clean your dryer vent to prevent a fire in your home.

How to clean your dryer vent:

- Unplug the dryer
- Pull the dryer away from the wall
- Unhook the dryer vent
- Vacuum the dryer vent out
- Hook the dryer vent back up
- Push the dryer back against the wall
- Plug the dryer in



Before

After

Agenda

Storage Update

Jeffery Keck, Operations Planning

Operational Update

Michael Gosselin, Gas Control & Planning

Noms & Scheduling

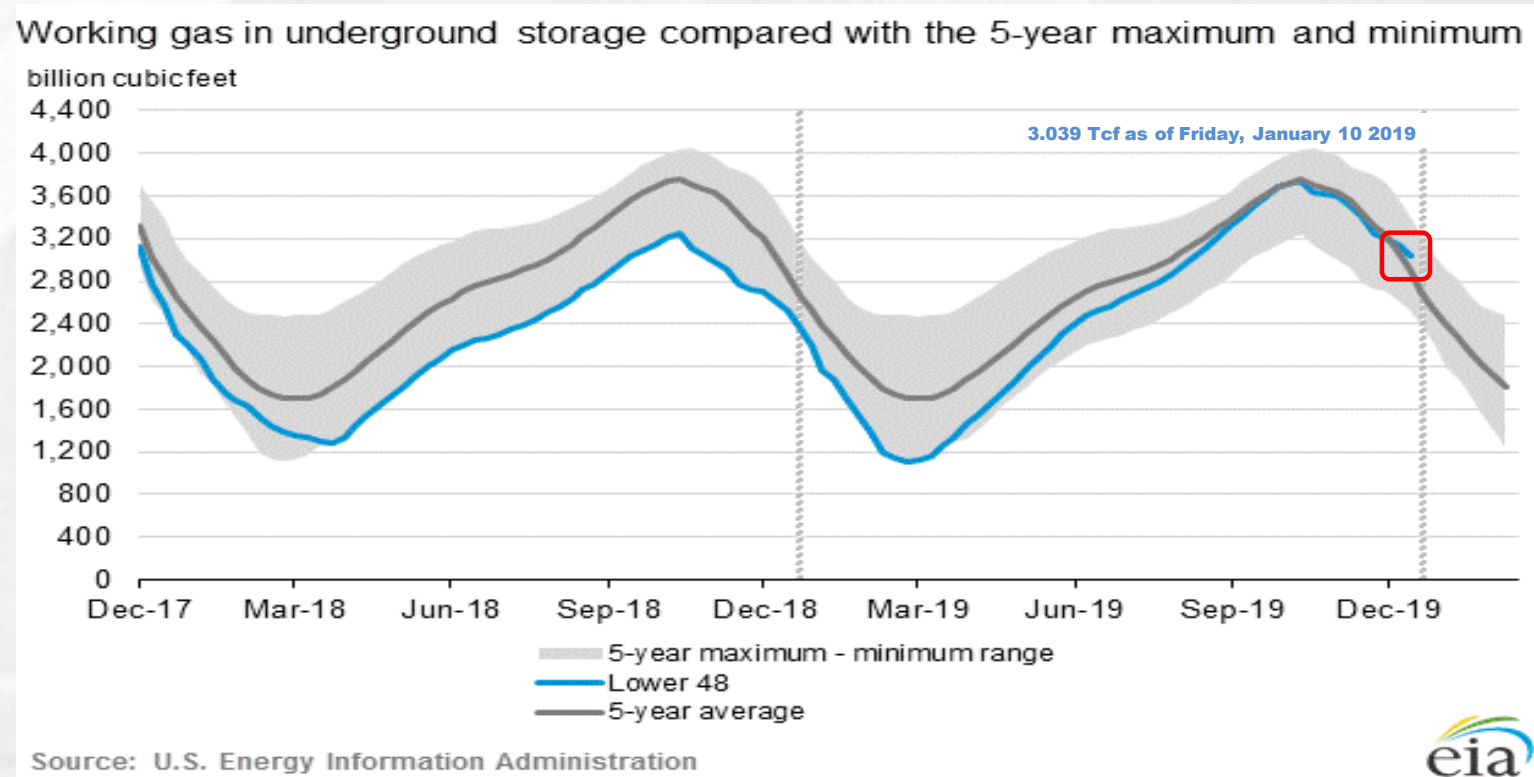
DeAnna Parsell, Noms & Scheduling





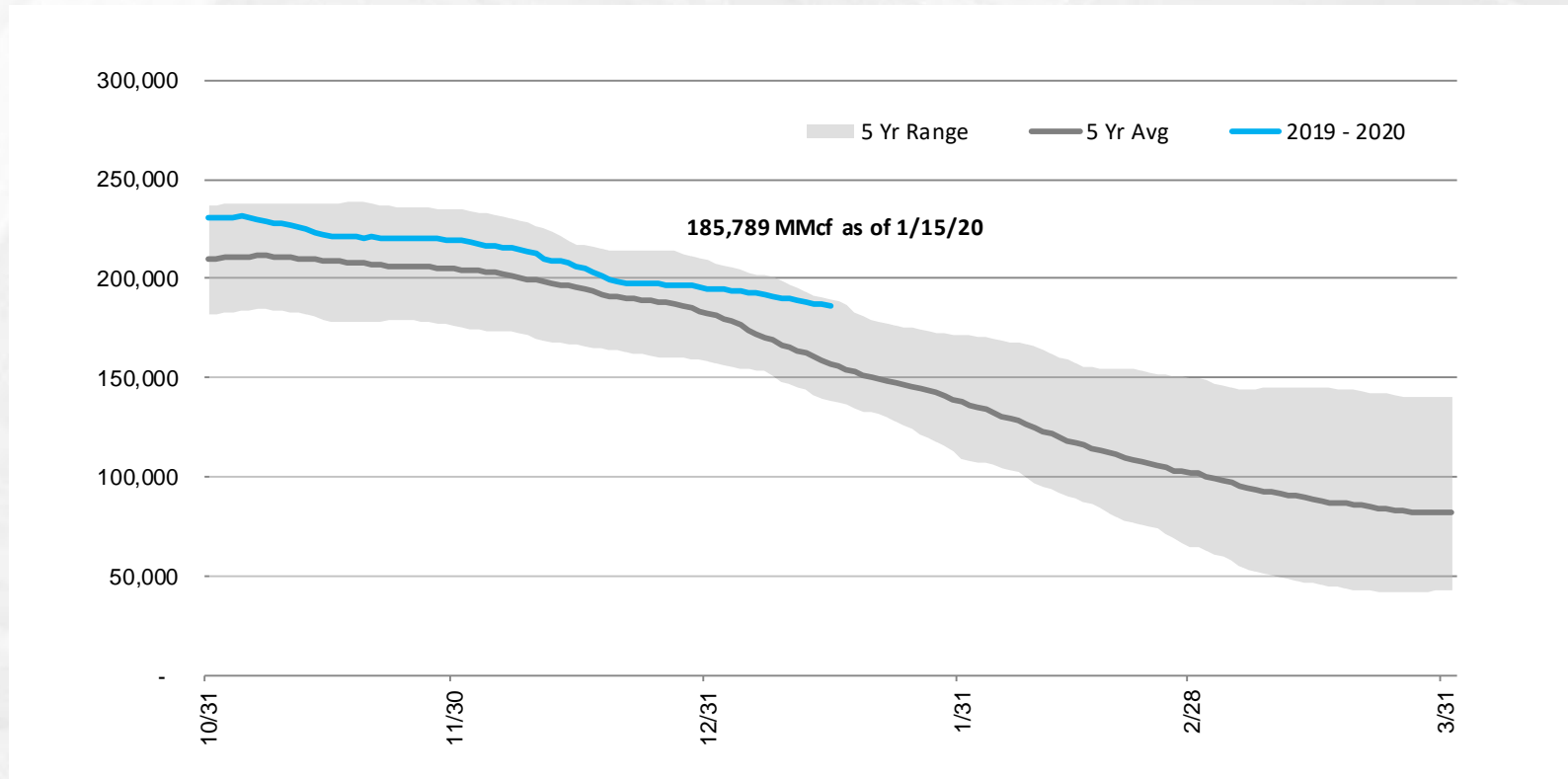
ANR Storage Update
Jeffery Keck – Operations Planning

EIA storage position: The big picture



- This is:
 - 494 Bcf higher than last year at this time
 - 149 Bcf above the five-year average
- It is the first time in two years that U.S. content is this much above average

Storage position



- Content is:
 - 28.5 bcf above the five-year average
 - Close to the five-year maximum
- ANR is in the position to readily serve cold weather demand for the rest of the winter and able to manage volume swings through the spring

Storage Operations

- From Dec. 10 – Jan. 15, storage activity averaged a withdrawal of about 200 MMcf/d. However, daily activity varied from an injection of about 200-MMcf/d to a withdrawal of almost 1.1-Bcf/d.
- ANR has met all firm customer demand for storage activity on both injection and withdrawal.
- Capacity is 74% full half way through the winter season.
- There are currently no posted restrictions on storage activity.
- The weather is expected to be normal or below normal over the next couple of weeks.
 - This means that stronger withdrawals are generally anticipated.
- Season ending contents are expected to be higher than normal.
 - This means that injection capacity may become constrained earlier in the season since there will be less capacity to fill.





Operational Update

Michael Gosselin – Gas Control & Operations Planning

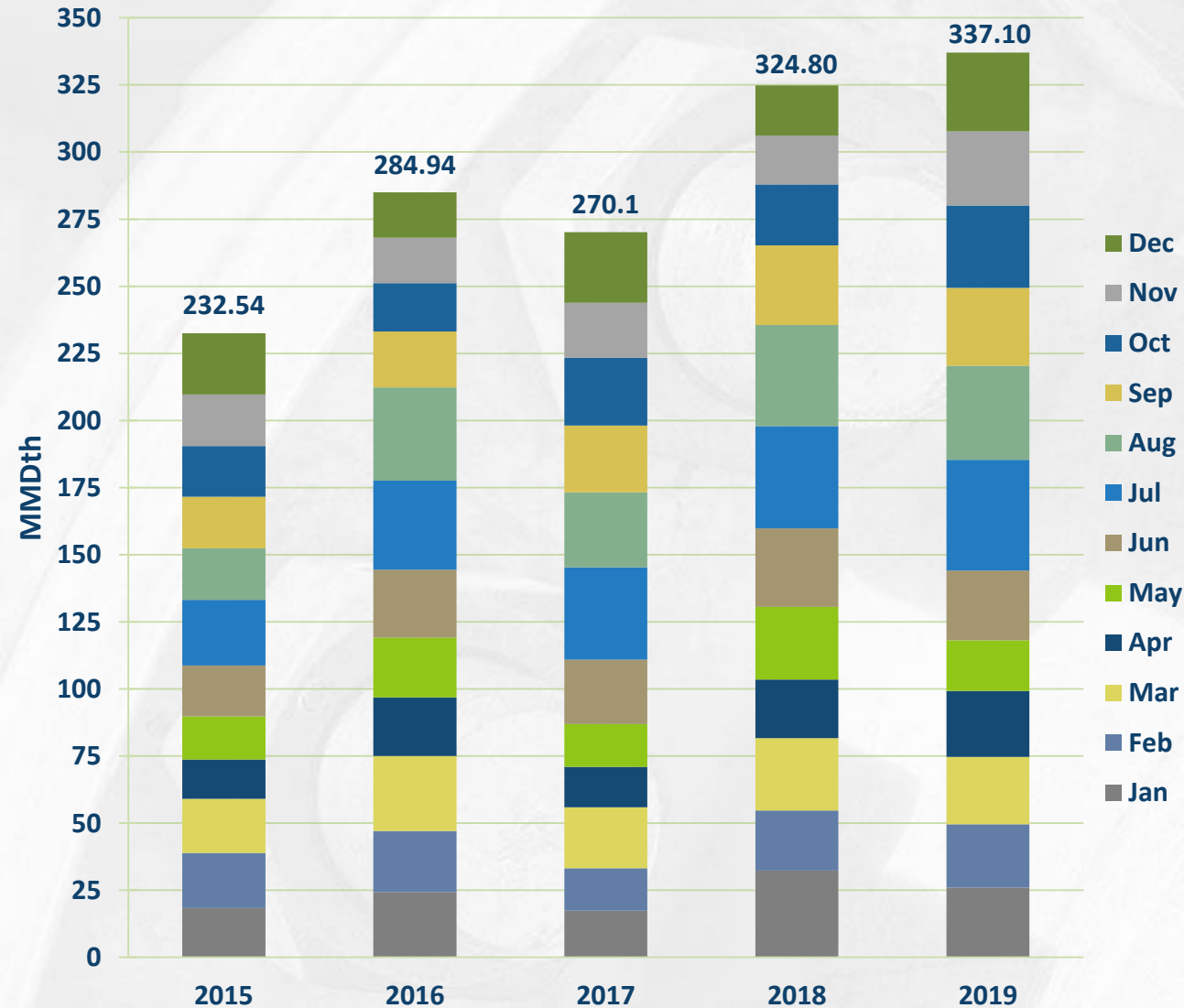


ANR December average daily flows

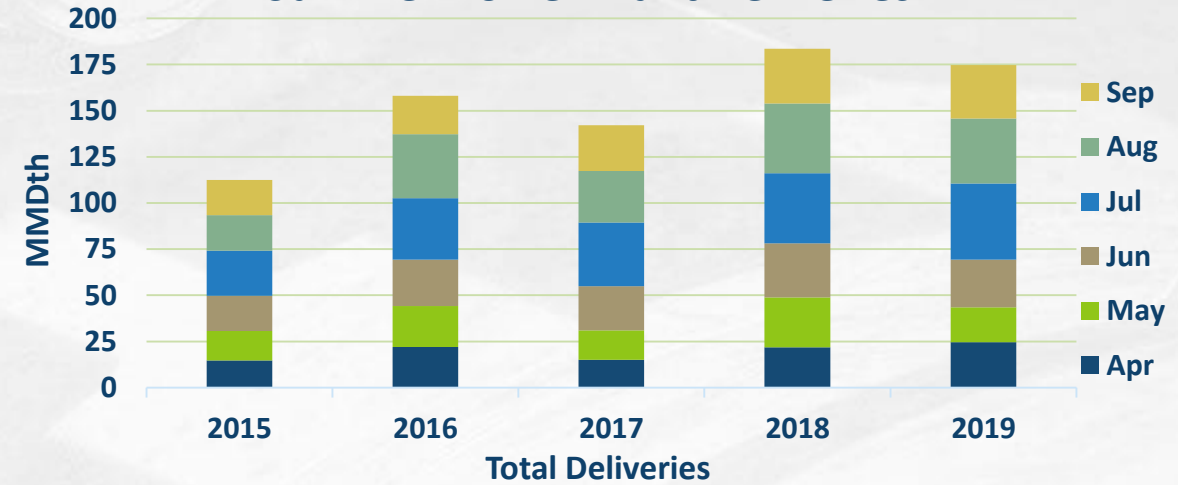
- 1 SWML Northbound flow averaged 622-MDth/d (▼ 12% November) with a utilization of 85% (↔ December 2018).
- 2 Wisconsin deliveries averaged 1377-MDth/d (▲ 10% November) with a peak flow of 1.8MMDth/d mid-month.
- 3 Michigan Leg South through St. John transitioned back to a small Eastbound flow (↻ November) averaging 32-MDth/d (with swings in both directions near 1MMDth/d).
- 4 Woolfolk averaged a Southbound flow of 360-MDth/d (▼ 12% November, with peak flows of 1.7MMDth/d (S) and 700MDth/d (N)).
- 5 ANR Pipeline storage averaged a withdrawal of 252-MDth/d (▲ 24% November). Flow ranged from 2-MMDth/d (WD) to 246-MDth/d (INJ).
- 6 Eunice Total averaged 1164-MDth/d or 92% full (▲ 13% November). Deliveries between Eunice and Patterson averaged 983-MDth/d (▲ 5% November). ANR received an average of 238-MDth/d from offshore at Patterson (▼ 34-MDth/d November).
- 7 Southbound flows through Jena averaged 1164-MDth/d (▲ 20% November) with a utilization of 94% (▲ 13% November).
- 8 REX Shelbyville receipts averaged 481-MDth/d (▼ 6% November) and Westrick Interconnect averaged 1,594-MDth/d (▼ 2% November).
- 9 Deliveries to MichCon at Willow Run averaged 523-MDth/d (↔ November, ▼ 3% December 2018).

ANR monthly deliveries to power plants

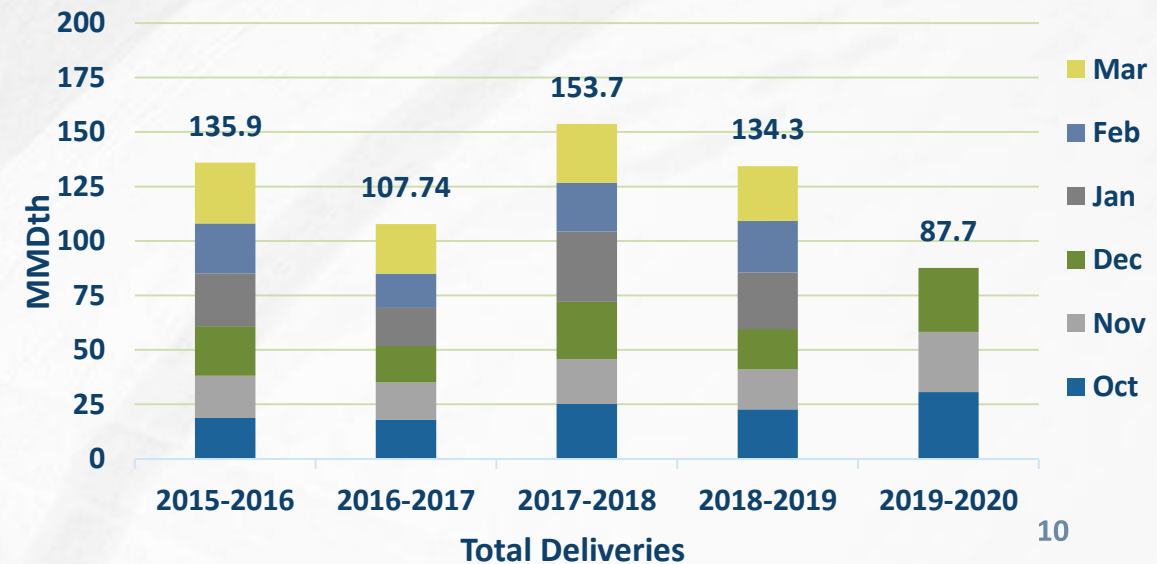
Total Monthly Power Plant Deliveries



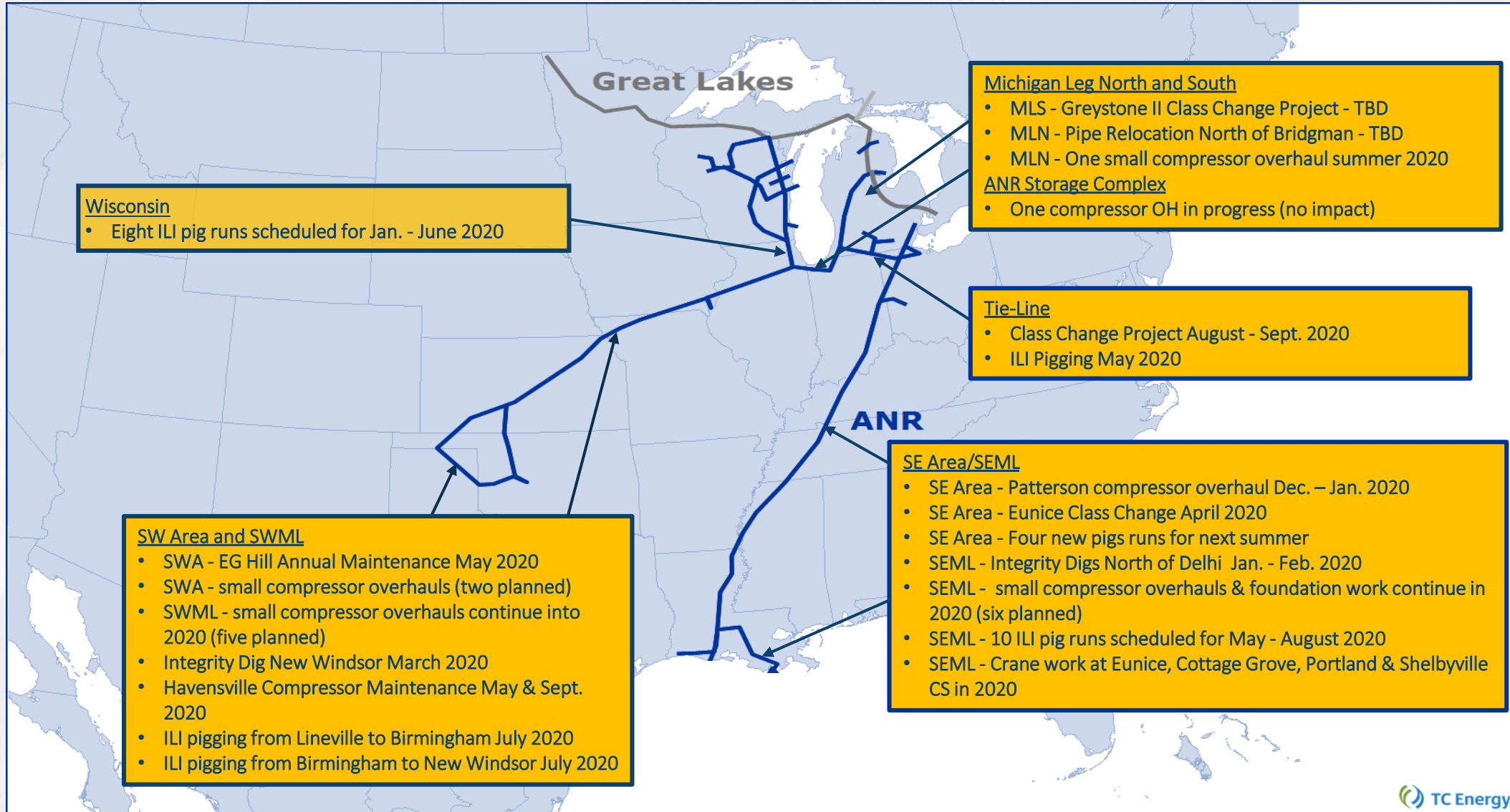
Summer Power Plant Deliveries



Winter Power Plant Deliveries



2020 ANR maintenance activity



ANR Posted Capacity Impacts – January 2020

Delhi Southbound (LOC #1379345) PSO ID #9564

- 268-MMcf/d (leaving 867-MMcf/d available) Jan. 13 – 25
- 120-MMcf/d (leaving 1015-MMcf/d available) Jan. 28 – Feb. 4


KM Midcontinent Express (LOC #803183) PSO ID #9545

- Shut in: Jan. 13 – 25

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



“To the extent the Transportation Service Provider's (TSP) other scheduling requirements are met, a TSP should support the ability of a Service Requester to redirect scheduled quantities to other receipt points upstream of a constraint point or delivery points downstream of a constraint point at any of the TSP’s subsequent nomination cycle(s) for the subject gas day, at least under the same contract, without a requirement that the quantities be rescheduled through the point of constraint.”

*NAESB WGQ Nominations Related Standards 1.3.80
(Nomination Redirect – Industry Standard implemented in 2011)*

Nomination Redirect

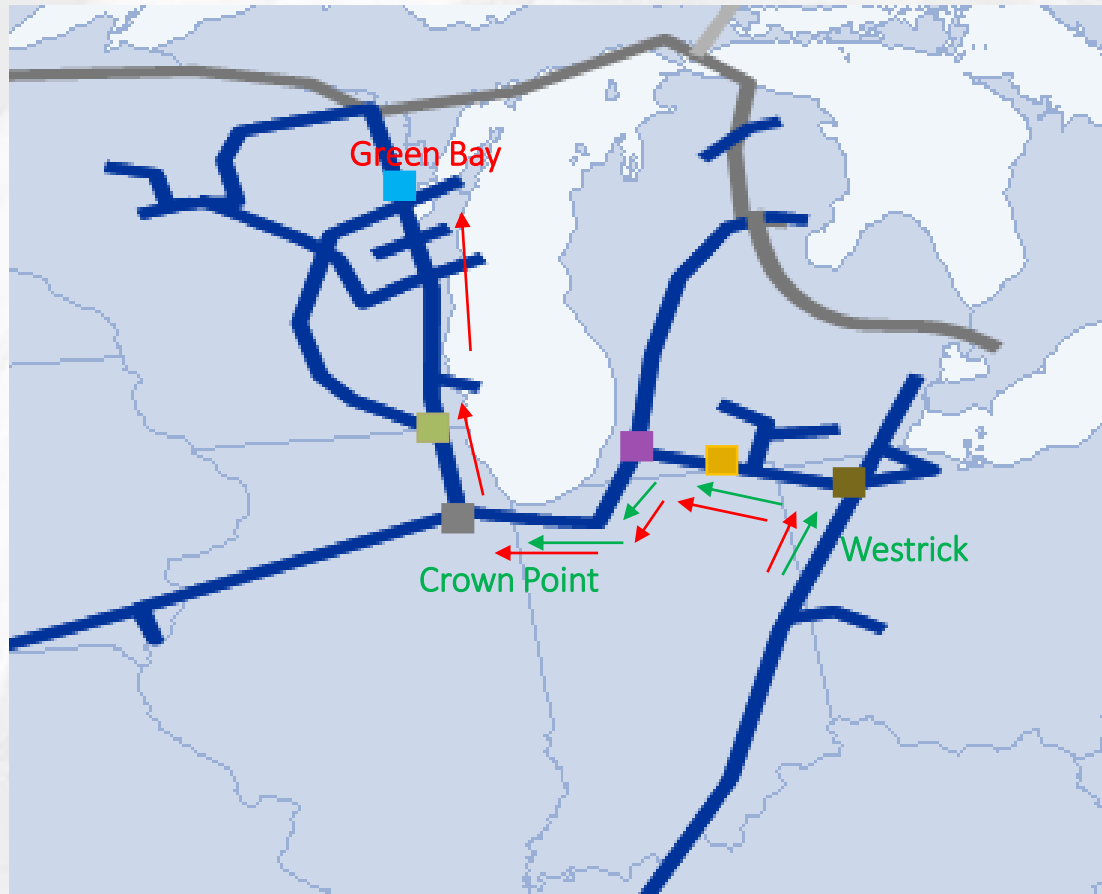
Valid redirect

- Changing receipt, delivery or both locations
- Using same contract
- All priorities, however IT can still be bumped in bumpable cycles
- Can use one or many nominations protected up to scheduled quantity

Reminders

- Only previously scheduled volumes are protected, increases are not protected
- No changing contracts
- Familiarize yourself with paths – Redirect only protects from constrained areas that were previously scheduled, you are not protected from other constrained locations

Nomination Redirect Example



A) Westrick to Crown Point

Redirect

B) Westrick to Green Bay

In this redirect example the shipper is protected through **Defiance NB**, **LaGrange WB** and **Bridgman WB**.

The shipper is not protected through Sandwich NB, **Woodstock NB** and **Kewaskum NB**.

ANR EBB

DC: Design Capacity

OPC: Operating Capacity

TSQ: Total Scheduled Qty

OAC: Operationally Available Capacity



Informational Postings

Capacity |

- Operationally Available
- Historical Oper. Available
- Unsubscribed
- No Notice Service Activity

Gas Quality

Index of Customers

Locations

Notices

Posted Imbalances

Regulatory

Standards of Conduct

Tariff

Transactional Reporting

Notice Search

Meter Request Process

Other

Downloads

System Maps

Search Tariff

Customer Activities

| Operational Capacity |



TSP Name: ANR Pipeline Company
TSP: 006958581
Meas Basis Desc: Million BTU's

Location Name	Location	Loc Purp Desc	Loc/QTI	DC	OPC	TSQ	OAC	Cycle	Eff Gas Day/Time	Post Date/Time	Flow Ind	IT	Comments	All Qty Avail
ABBOTSFORD NORTHBOUND	505631	Pipeline Segment defined by 1 location (or first of 2 locations)	SGQ	17,225	17,225	10,513	6,712	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y
ACADIA 2 INT	767091	Receipt Location	RPQ	200,000	200,000	0	200,000	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	R			Y
ACADIA 2 INT DEL	523091	Delivery Location	DPQ	690,000	686,205	475,570	210,635	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y
ACADIA POWER PLANT	322045	Delivery Location	DPQ	382,500	379,500	0	379,500	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y
ACADIA PRSH FROM EUNICE	505620	Pipeline Segment defined by 1 location (or first of 2 locations)	SGQ	1,215,000	1,227,875	844,355	383,520	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y
ADRIAN/WESTSIDE PL CO	150409	Delivery Location	DPQ	49,700	49,296	2,000	47,296	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y
ALBANY	12977	Delivery Location	DPQ	4,300	4,333	255	4,078	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y
ALDEN/WILLIAMS NAT GAS	5751	Receipt Location	RPQ	153,600	153,468	0	153,468	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	R			Y
ALEDO/CITY OF ALEDO	3973	Delivery Location	DPQ	2,500	2,525	1,435	1,090	Intraday 1	01/17/2020 14:00	01/17/2020 12:44	D			Y

Decrementing Available Capacity

Timely – 0 flow

Evening – 0 flow

ID1 – five hours of flow, 19 remaining

ID2 – 9 hours of flow, 15 remaining

ID3 – 13 hours of flow, 11 remaining

Last Intra Day – 20 hours of flow,
four remaining (only applicable to Zone 7)

Example - Woodstock NB OPC 1,998,674 Dth

Timely - TSQ=1,807,784 OAC=190,890

Evening - TSQ=1,786,505 OAC=212,169

ID1 - TSQ=1,797,674 Decrement OAC= $19/24 \times 200,998$ =**159,123**

ID2 - TSQ=1,809,363 Decrement OAC= $15/24 \times 189,311$ =**118,319**

ID3 - TSQ=1,786,533 Decrement OAC= $11/24 \times 212,139$ =**97,230**

Last Intra Day - TSQ=1,786,533 Decrement OAC= $4/24 \times 212,139$ =**35,356**

Questions



US\$ 0.8	0.2	
US\$ 0.7	0.3	
US\$ 0.6	0.4	
US\$ 0.5	0.5	
US\$ 0.4	0.6	
US\$ 0.3	0.7	
US\$ 0.2	0.8	
US\$ 0.1	0.9	
US\$ 0.0	1.0	
Total Conversion Expenses		14.2

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.transcanada.com