Safety Moment

Memorial Day safety reminders

• Food safety
• Water safety
• Grill/fire safety
• Safe sun exposure
• Travel safety
Did you know?

TC Energy has a podcast series – TC Connects. Visit tcenergy.com/podcasts to hear more!

TC Energy has gone all-in on AWS. Our migration to the AWS cloud was a significant factor in a quick and seamless transition to work remotely so we could do our part to slow the spread of COVID-19 and protect our communities.

You can read a quarterly INGAA blog by Stan Chapman at ingaa.org/energylink. The latest blog, The natural gas industry is prepared for times like these, describes how our pipeline network is safely and reliably bringing stability to our nation.
Agenda

Storage Update
Jeffery Keck, Operations Planning

Operational Update
Michael Gosselin, Operations Planning

Noms & Scheduling
DeAnna Parsell, Noms & Scheduling
EIA storage position: The big picture

2.422 Tcf as of Friday, May 8, 2020

799 bcf above the five-year average than May 2019

413 bcf above the five-year average
Storage position

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

- 86 bcf
  - 161,621 MMcf as of 5/17/20
  - 5 Yr Max - Min Range
  - 5 Yr Avg
  - 2,020

than May 2019

- 57 bcf
  - above the five-year average
Storage operations

• From April 16 – May 17, storage activity averaged an injection of about 800-MMcf/d. However, daily activity varied from an injection as low as 150-MMcf/d to as high as 1,150-MMcf/d.

• ANR has met all firm customer demand for storage activity on both injection and withdrawal.

• Capacity is 64% full 1.5 months into the injection season.

• There is currently one posted restriction on storage activity. Under this restriction, DDS and MBS storage activity is allowed, but it requires interruptible contents to be no higher on Sept. 1, 2020, than they were on March 29, 2020.
Storage operations

- The impacts from this summer’s planned maintenance activity will be reflected on the EBB under the operationally available capacity.
- With continued low gas prices and normal weather forecasted over the next two weeks, fairly heavy injections are expected to continue.
- If current strong injection rates continue through the summer, storage capacity could be full within two – three months.
- Current contents are higher than normal.
  - Injection capacity will become constrained earlier in the season since there will be less capacity to fill.
Operational Update

Michael Gosselin – Operations Planning
## Monthly deliveries to Power Plants

### Total Monthly Power Plant Deliveries

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### Summer Power Plant Deliveries

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April average daily flows

1. SWML Northbound flow averaged 658-MDth/d (▲14% March and ↔ last April) with a utilization of 97% (▲ 4% March).

2. Wisconsin deliveries averaged 822-MDth/d (▼36% March, but ▲16% last April) with a peak flow just over 1.2-MMDth/d.

3. Michigan Leg South through St. John averaged a Eastbound flow of 557-MDth/d (▲351-MDth/d March) with peak flows of 119-Dth/d (W) and 1,005-MDth/d (E).

4. Woolfolk averaged a Northbound flow of 643-MDth/d (ーシ March), with peak flows of 208-MMDth/d (S) and 1,039-MDth/d (N).

5. ANR Pipeline storage averaged an injection of 608-MDth/d (ーシ March) with peak flows of 151-MDth/d (W) and 993-MDth/d (I).

6. Eunice Total averaged 1,137-MDth/d (ーシ March) with a utilization of 92% (▲3% March). Deliveries between Eunice and Patterson averaged 949-MDth/d (▼6% March). ANR received an average of 210-MDth/d from offshore at Patterson (▼15% March).

7. Southbound flows through Jena averaged 1,188-MDth/d (▲2% March) with a utilization of 95% (ーシ March).

8. REX Shelbyville receipts averaged 472-MDth/d (▼72-MDth/d March) and Westrick Interconnect averaged 1,582-MDth/d (▲72-MDth/d March).

9. Deliveries to MichCon at Willow Run averaged 534-MDth/d (▲31-MDth/d March).
2020 ANR Maintenance Activity

**Wisconsin**
- Marshfield ILI pig run in June
  - Completed ILI pigging near Woodstock
- Three Integrity Digs - Madison/Woodstock June - August
- Mountain compressor maintenance May - Sept.
- Marshfield Class Change June - Sept.

**SE Area/SEML**
- Patterson compressor overhaul completed
- SE Area Eunice compressor maintenance May-June
- SE Area Eunice class change April - May
- SE Area Four new pigs runs for July
- SE Area & SEML Integrity Digs May - October
  - Completed digs near Brownsville & Delhi
- SEML Jena emergent turbine replacement completed
- SEML Celestine area class change April - May
- SEML small compressor overhauls & foundation work
- SEML 11 ILI pig runs scheduled for May - September

**Michigan Leg North and South**
- MLS - Greystone II class change project August
- MLS - St John automation project July - Oct.
- MLN - Pipe relocation North of Bridgman August
- MLN - Bridgman compressor maintenance & Integrity digs August - Sept.
- MLN - One small compressor overhaul summer

**ANR Storage Complex**
- Rapid River & Loreed compressor OH
- Goodwell Integrity Digs in late July - Aug.

**Tie Line**
- Class Change Project August – Sept.
- ILI Pigging May
- Integrity Digs - June
Posted capacity impacts

**SW Area (6/1 -6/5) PSO #9700**
- E.G. Hill Northbound (LOC #226643)
  - 140-MMcf/d (leaving 75-MMcf/d available)
- Custer Northbound (LOC #226644)
  - 24-MMcf/d (leaving 16-MMcf/d available)
- Mooreland Northbound (LOC #9505448)
  - 106-MMcf/d (leaving 100-MMcf/d available)

**SWML Northbound (LOC#226630) PSO ID #9697**
- 102-MMcf/d (leaving 589-MMcf/d available) May 19 – 23
- 35-MMcf/d (leaving 656-MMcf/d available) June 11
- 35-MMcf/d (leaving 656-MMcf/d available) June 22
- 35-MMcf/d (leaving 656-MMcf/d available) June 25

**Michigan Leg South (6/1 -6/5) PSO #9698**
- Firm Primary Only: Joliet NGPL (LOC# 2610), Joliet (MGT-Rec) (LOC# 48641), Youngs Road Del (LOC# 523090)

**Cottage Grove Southbound (LOC #505614) PSO #9654**
- 81-MMcf/d (leaving 1,064-MMcf/d available) April 7 – May 26
- 100-MMcf/d (leaving 1,045-MMcf/d available) May 27 – July 29

**Eunice Eastbound (LOC #226641) PSO ID #9692**
- 200-MMcf/d (leaving 287-MMcf/d available) May 18 – 28

**Eunice Total (LOC #505592) PSO ID #9702**
- 121-MMcf/d (leaving 1,050-MMcf/d available) May 18 – 28

**SE Gathering Area (April 27 – May 22) PSO ID #9673**
- Shut In: Stingray Int (LOC #135819), Cameron (LOC #43456), Hogs Bayou No 2 (LOC #22040), Kings Bayou No 2 (LOC #150708), Henry Estate Int. (LOC #199331), Henry Estate (Buyback) (LOC #314210)
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
Outage map

Can be accessed at anrpl.com under “What’s New” or through “Quick Links” – “Available Capacity”
ANRPL info postings – Locations
## Downloaded location data

| Location Name          | Loc | Loc St Abb | Loc Cnty | Loc Zone | Loc Type Ind | Dir Flo | Loc Stat | In Eff Date      | Inact Date Up/Dn Ind | Up/Dn Name       | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID | Up/Dn ID |
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| ABBOTSFORD/EDGAR       | 28739 | WI         | Marathon | Zone 7   | LDC          | D       | A        | 1/1/1993        | N                    | Wisconsin Gas Lp  | 794704   | N        |
| ACADIA INT DEL         | 523981 | LA         | Acadia   | Zone 5   | INT          | R       | A        | 6/1/2009        | Y                    | Kinder Morgan    | 80619131 | N        | ANR/KML  | 44395   | Y        |
| ACADIA 2 INT REC       | 767091 | LA         | Acadia   | Zone 1   | INT          | R       | A        | 6/1/2009        | Y                    | Kinder Morgan    | 80619131 | N        | ANR/KML  | 44395   | Y        |
| ACADIA POWER PLANT     | 322045 | LA         | Acadia   | Zone 1   | PLT          | D       | A        | 2/25/2009       | Y                    | Cleco Power      | 6948178  | N        |
| ADAMS WI               | 28865  | WI         | Weausha  | Zone 7   | LDC          | D       | A        | 1/1/1983        | Y                    | Wisconsin Gas Lp  | 794704   | N        |
| ADRIAN/WESTSIDE PL CO  | 150409 | MI         | Lenawee  | Zone 7   | INT          | D       | A        | 6/1/1993        | Y                    | Westside Pipeline | 874457641 | N        |
| ALBANY                 | 12577  | MO         | Gentry   | Zone 6   | END          | D       | A        | 1/1/1983        | N                    | Albany City Of   | 46334660 | N        |
| ALCAN ALUMINUM INT     | 40462  | KY         | Webster  | Zone 8   | END          | D       | A        | 9/27/2013       | Y                    | Alcan Ingot DBA  | 13062238 | N        |
| ALDER/WILLIAMS NAT GA  | 5755   | KS         | Rice     | Zone 5   | INT          | R       | A        | 8/17/1984       | Y                    | Southern Star Co  | 7960338 | N        | ANR Alder | 35525   | Y        |
| ALEDO/CITY OF ALEDO    | 3973   | IL         | Mercer   | Zone 6   | END          | D       | A        | 1/1/1983        | Y                    | Alendo/City Of A. | 95787032 | N        |
| ALLEN PLANT            | 505606 | TN         | Shelby   | Zone 2   | PLT          | D       | A        | 10/23/2017      | Y                    | Tenn Valley Auth  | 1883002  | N        |
| ALLERTON               | 4857   | IA         | Wayne    | Zone 6   | LDC          | D       | A        | 1/1/1983        | Y                    | Allerton Gas Co   | 22038221 | N        |
| ALLIANCE/ANR INT       | 277072 | IL         | Will     | Zone 9   | INT          | R       | A        | 4/28/2000       | Y                    | Alliance Pipeline | 25846620 | N        |
| ALPENA DEL/MICH CON G  | 40832  | MI         | Clare    | Zone 7   | INT          | D       | A        | 1/1/1983        | N                    | DTE Gas Co       | 6595540  | N        |
| ALPENA REC/MICH CON G  | 3026   | MI         | Clare    | Zone 7   | LDC          | R       | A        | 4/11/1988       | N                    | DTE Gas Co       | 6595540  | N        |
| ALTA VISTA/CITY OF AV  | 3227   | KS         | Geary    | Zone 5   | END          | D       | A        | 1/1/1983        | N                    | Kansas Gas Svc    | 504804202 | N        |
| AMHERST/WISC PWK & LI  | 2290   | WI         | Portage  | Zone 2   | LDC          | D       | A        | 1/1/1983        | Y                    | Wisconsin Powe    | 7960338 | N        |
| ANDOVER                | 3796   | IL         | Mercer   | Zone 6   | LDC          | D       | A        | 1/1/1983        | Y                    | Ameren Illinois C | 6916017  | N        |
| ANGELICA INT           | 266092 | WI         | Shawano  | Zone 7   | LDC          | D       | A        | 10/15/1999      | Y                    | Wisconsin Gas Lp  | 794704   | N        |
| ANGOLA                 | 40185  | IN         | De Kalb  | Zone 7   | LDC          | D       | A        | 1/1/1983        | Y                    | NIPSCO            | 6917585  | N        |
| ANR JOLIET HUB         | 243907 | IL         | Will     | Zone 7   | PPT          | B       | A        | 5/1/1998        | N                    | ANR Pipeline Co   | 6598581  | Y        |
| ANR/GPM INT-LAVERNE    | 217541 | OK         | Harper   | Zone 4   | INT          | D       | A        | 7/12/1999       | N                    | DCP Mildstream   | 3048753  | N        |
| ANRPL STORAGE FACILITI  | 153808 | MI         | Osceola  | Zone 7   | STR          | B       | A        | 1/1/1990        | N                    | ANR Pipeline Co   | 6595581  | Y        |
| ARROWHEAD - RAPID RIVER| 126095 | MI         | Kalkaska| Zone 7   | LDC          | D       | A        | 12/1/2012       | N                    | ANR Pipeline Co   | 6595581  | Y        |
| ANTIGO                 | 28730  | WI         | Langlade | Zone 7   | LDC          | D       | A        | 1/1/1983        | Y                    | City Gas Co       | 3776457  | N        |
| ANTRIM PLANT           | 177238 | MI         | Otsego   | Zone 7   | PLT          | D       | A        | 4/1/2013        | Y                    | DTE Gas Co       | 6595540  | N        |
| APPLETON               | 28870  | WI         | Winnebag | Zone 7   | LDC          | D       | A        | 1/1/1983        | Y                    | Wisconsin Electr  | 7947385  | N        |
ANR GEMS password reset Reminders

- If you lock yourself out of GEMS by too many failed login attempts (but you know your password), wait 15 minutes and the system will automatically “unlock”.

- If you do not know your password and need to reset it, go to [anrpl.com](http://anrpl.com) and click on the reset password link. This will draft an email to be sent to the security group. You will need to enter your ANR login ID. If after hours, please contact the on call ANR security representative.
If you know your password but would like to change it, visit anrpl.com:
- Select “Customer Link”
- Login using your GEMS ID and current password (Do not select reset password.)
ANR GEMS password change

- From the menu:
  - User options
  - Password change
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