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
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
SWML Northbound flow averaged 622-MDth/d (▼ 12% November) with a utilization of 85% (December 2018).

Wisconsin deliveries averaged 1377-MDth/d (▲ 10% November) with a peak flow of 1.8MMDth/d mid-month.

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).

Woolfolk averaged a Southbound flow of 360-MDth/d (▼ 12% November, with peak flows of 1.7MMDth/d (S) and 700MDth/d (N)).

ANR Pipeline storage averaged a withdrawal of 252-MDth/d (▲ 24% November). Flow ranged from 2-MMDth/d (WD) to 246-MDth/d (INJ).

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).

Southbound flows through Jena averaged 1164-MDth/d (▲ 20% November) with a utilization of 94% (▲ 13% November).

REX Shelbyville receipts averaged 481-MDth/d (▼ 6% November) and Westrick Interconnect averaged 1,594-MDth/d (▼ 2% November).

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

SE Area/SEML
• SE Area - Patterson compressor overhaul Dec. – Jan. 2020
• SE Area - Eunice Class Change April 2020
• SE Area - Four new pigs runs for next summer
• SEML - Integrity Digs North of Delhi Jan. - Feb. 2020
• SEML - small compressor overhauls & foundation work continue in 2020 (six planned)
• SEML - 10 ILI pig runs scheduled for May - August 2020
• SEML - Crane work at Eunice, Cottage Grove, Portland & Shelbyville CS in 2020

SW Area and SWML
• SWA - EG Hill Annual Maintenance May 2020
• SWA - small compressor overhauls (two planned)
• SWML - small compressor overhauls continue into 2020 (five planned)
• Integrity Dig New Windsor March 2020
• Havensville Compressor Maintenance May & Sept. 2020
• ILI pigging from Lineville to Birmingham July 2020
• ILI pigging from Birmingham to New Windsor July 2020

Wisconsin
• Eight ILI pig runs scheduled for Jan. - June 2020

Michigan Leg North and South
• MLS - Greystone II Class Change Project - TBD
• MLN - Pipe Relocation North of Bridgman - TBD
• MLN - One small compressor overhaul summer 2020

ANR Storage Complex
• One compressor OH in progress (no impact)

Tie-Line
• Class Change Project August - Sept. 2020
• ILI Pigging May 2020
Delhi Southbound (LOC #1379345) PSO ID #9564

- 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.
<table>
<thead>
<tr>
<th>Location Name</th>
<th>Location</th>
<th>Loc Purp Desc</th>
<th>Loc/QT</th>
<th>DC</th>
<th>OPC</th>
<th>TSQ</th>
<th>OAC</th>
<th>Cycle</th>
<th>Eff Gas Day/Time</th>
<th>Pmt Date/Time</th>
<th>Flow Ind</th>
<th>IT</th>
<th>Comments</th>
<th>All Qty Avail</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABBOTSFORD NORTHBOUND</td>
<td>505831</td>
<td>Pipeline Segment defined by 1 location (or first of 2 locations)</td>
<td>SQQ</td>
<td>17,225</td>
<td>17,225</td>
<td>10,515</td>
<td>6,712</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACADIA 2 INT</td>
<td>576001</td>
<td>Receipt Location</td>
<td>RPQ</td>
<td>200,000</td>
<td>200,000</td>
<td>0</td>
<td>200,000</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>R</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACADIA 2 INT DEL</td>
<td>521691</td>
<td>Delivery Location</td>
<td>DPQ</td>
<td>690,000</td>
<td>686,205</td>
<td>475,570</td>
<td>210,635</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACADIA POWER PLANT</td>
<td>320145</td>
<td>Delivery Location</td>
<td>DPQ</td>
<td>382,500</td>
<td>379,500</td>
<td>0</td>
<td>379,500</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACADIA PSH FROM EUNICE</td>
<td>505620</td>
<td>Pipeline Segment defined by 1 location (or first of 2 locations)</td>
<td>SQQ</td>
<td>1,235,000</td>
<td>1,227,875</td>
<td>844,335</td>
<td>383,520</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADRIAN/WESTSIDE PL CO</td>
<td>150409</td>
<td>Delivery Location</td>
<td>DPQ</td>
<td>49,700</td>
<td>40,396</td>
<td>2,000</td>
<td>47,296</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALBANY</td>
<td>12977</td>
<td>Delivery Location</td>
<td>DPQ</td>
<td>4,300</td>
<td>4,333</td>
<td>255</td>
<td>4,078</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALDEN/WILLIAMS NAT GAS</td>
<td>5751</td>
<td>Receipt Location</td>
<td>RPQ</td>
<td>153,600</td>
<td>153,468</td>
<td>0</td>
<td>153,468</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>R</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALED CITY OF ALED</td>
<td>5973</td>
<td>Delivery Location</td>
<td>DPQ</td>
<td>2,900</td>
<td>2,525</td>
<td>1,435</td>
<td>1,090</td>
<td>Interday 1</td>
<td>01/17/2020 14:00</td>
<td>01/17/2020 12:44</td>
<td>D</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Decrementing Available Capacity

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Flow Status</th>
<th>Remaining Flow (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timely</td>
<td>0 flow</td>
<td>ID2 – 9 hours of flow, 15 remaining</td>
</tr>
<tr>
<td>Evening</td>
<td>0 flow</td>
<td>ID3 – 13 hours of flow, 11 remaining</td>
</tr>
<tr>
<td>ID1</td>
<td>five hours of flow, 19 remaining</td>
<td>Last Intra Day – 20 hours of flow, four remaining (only applicable to Zone 7)</td>
</tr>
</tbody>
</table>

### Example - Woodstock NB OPC 1,998,674 Dth

<table>
<thead>
<tr>
<th>Time Period</th>
<th>TSQ</th>
<th>OAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timely</td>
<td>1,807,784</td>
<td>190,890</td>
</tr>
<tr>
<td>Evening</td>
<td>1,786,505</td>
<td>212,169</td>
</tr>
<tr>
<td>ID1</td>
<td>1,797,674</td>
<td>Decremented OAC=19/24 x 200,998=159,123</td>
</tr>
<tr>
<td>ID2</td>
<td>1,809,363</td>
<td>Decremented OAC=15/24 x 189,311=118,319</td>
</tr>
<tr>
<td>ID3</td>
<td>1,786,533</td>
<td>Decremented OAC=11/24 x 212,139=97,230</td>
</tr>
<tr>
<td>Last Intra Day</td>
<td>1,786,533</td>
<td>Decremented OAC=4/24 x 212,139=35,356</td>
</tr>
</tbody>
</table>
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.transcanada.com