IROQUOIS GAS TRANSMISSION SYSTEM, L.P.

2018 Northeast Gas Association Pre-Winter Briefing

November 8, 2018
Iroquois Gas Transmission System, L.P.

- **Commenced Operations in 1991**
  - Headquarters in Shelton, CT
  - 84 employees (24 field operating personnel)
  - 24/7 Gas Control monitoring
    - Remote operated valve sites, meters and compressor stations
  - Comprehensive integrity programs
    - Extensive aerial, ground, and “in-line” inspection programs

- **Primary Markets**
  - Connecticut
  - Long Island
  - New York City

- **1.7 Bcf/d Physical Receipt Capability:**
  - TransCanada = 1.2 Bcf/d
  - Algonquin = 0.4 Bcf/d
  - Dominion = 0.082 Bcf/d (In-service 11/1/17)
  - XNG (Manheim) = 0.0020 - 0.0050 Bcf/d

- **Piping**
  - 416-mile of 30” and 24” pipeline
  - MAOP = 1440 psig

- **Pipeline Interconnects:**
  - TransCanada
  - Dominion
  - Tennessee (200 and 300 lines)
  - Algonquin

- **7 Compressor Stations – 115,900 HP**
2017/2018 Volumes

- November 1, 2017 – March 31, 2018
- Physical Receipts:
  - Waddington = 112.0 MMDth
    - Peak Day = 1.190 MMDth (01/14/18)
  - Manheim = 2.006 MMDth
    - Peak Day = 20,651 Dth (11/28/17)
  - DETI = 9.651 MMDth
    - Peak Day = 92,704 Dth (3/16/18)
  - Brookfield = 40.80 MMDth
    - Peak Day = 432,790 Dth (11/7/17)
- Physical Deliveries = 164.2 MMdth
- Peak Day Delivery = 1.537 MMDth (12/14/2017)
- Average Daily Delivery = 1,088 MMdth
16/17 vs. 17/18 Volumes

Winter 16/17 vs. 17/18 (Dth)
3 Year Winter Volumes

November 1 - March 31 (Bcf)

- 2015/2016
- 2016/2017
- 2017/2018
2017/ Volumes Winter Volumes
27.4% Generators, 23.6% Interconnects, 49.0% LDC’s
## Historical Peak Day/Physical

<table>
<thead>
<tr>
<th>Location</th>
<th>Dt/d</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waddington</td>
<td>1,221,160</td>
<td>2/6/15</td>
</tr>
<tr>
<td>Brookfield</td>
<td>432,790</td>
<td>11/7/17</td>
</tr>
<tr>
<td>Waddington/Brookfield</td>
<td>1,544,556</td>
<td>3/5/15</td>
</tr>
<tr>
<td>Wright TGP</td>
<td>410,471</td>
<td>3/3/16</td>
</tr>
<tr>
<td>Wright &amp; Shelton TGP</td>
<td>509,128</td>
<td>3/3/16</td>
</tr>
<tr>
<td>South Commack</td>
<td>563,262</td>
<td>2/14/16</td>
</tr>
<tr>
<td>Hunts Point</td>
<td>356,830</td>
<td>1/20/09</td>
</tr>
<tr>
<td>Northport/South Commack/Hunts Point</td>
<td>860,927</td>
<td>2/7/10</td>
</tr>
<tr>
<td>D/S of Milford Compressor Station</td>
<td>912,185</td>
<td>1/12/10</td>
</tr>
<tr>
<td>Total Physical Deliveries – All Meters</td>
<td>1,537,971</td>
<td>12/14/17</td>
</tr>
</tbody>
</table>
2018 Summer Statistics

- April-September volumes up 36% from 2017
- Direct Connect Power Generation up 19% from 2017
- Algonquin Receipts average 310,120Dth/d
  - 10% Decrease from same period last year
- TCPL Receipts average 252,278Dth/d
  - up 76% from 2017
- DETI Receipts average 78,617Dth/d
Operational Year In Review

• Winter 2017/2018
  – New peak delivery day, 7 top 10 delivery days
  – Additional volumes DETI

• Northeast Summer
  – Higher Waddington volumes
  – Generation Load – 36% increase from 2017

• Operational Challenges
  – At operational capacity peak cold days (December – April)
  – Coordinating maintenance across regional infrastructure
  – CVEC Tie in

• Maintenance
  – Completed for 2018
  – Minimal impact to operations
2017/2018 Lessons Learned

• Waddington scheduled to capacity on peak cold days
  – Reduced receipts at Brookfield
  – Restrictions MLV 12, MLV 17A, MLV 32

• Increased deliveries to TGP Gates
  – Wright (200) & Shelton (300)

• Critical Notices
  – No overruns
  – Uniform takes
  – Meter/Point restrictions

• Peak generation loads this past summer
Maintenance/Project

• Scheduled Maintenance
  – 24” Eastchester ILI complete
  – All annual maintenance outages for compressors completed

• Unscheduled Maintenance
  – 24” ILI – Long Island Sound
  – Brookfield A1 Turbine replacement

• Scheduled Projects
  – CVEC/Dover Meter Tie in
  – MLV back-up communications
Summary

- **Summer Operations**
  - 36% Higher volumes
  - Higher power generation loads
  - Increased volumes at Waddington. Brookfield receipts slightly down – maintenance on their system

- **Maintenance/Projects**
  - 24” Eastchester ILI
  - Canajoharie Receipts – In Service
  - CVEC Tie In 10/24
  - Test Run Compression

- **2019 - Projects**
  - Dover Meter (CVEC)
  - PSEG – Bridgeport Plant
2018 Winter Outlook

• Zone 2 fully contracted
• Limited PAL/I.T./STF service on peak days
• Anticipate allocating through different points/paths on the system (Ex. MLV 1, MLV 12, MLV17A-Athens, MLV 32)