IROQUOIS GAS TRANSMISSION
SYSTEM, L.P.

2017 Northeast Gas Association
Pre-Winter Briefing
Columbia Gas of MA
November 2, 2017
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 = .082 Bcf/d (In-service 11/1/17)
  ▪ XNG (Manheim) = .0020 - .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
2016/2017 Volumes

• November 1, 2016 – March 31, 2017

• Physical Receipts:
  – Waddington = 94.80 MMDth
    • Peak Day = 1.215 MMDth (03/11/2017)
  – Brookfield = 44.28 MMDth
    • Peak Day = 432,538 Dth (3/25/17)

• Physical Deliveries = 138.5MMdth

• Peak Day Delivery = 1.470 MMDth (2/09/2017)

• Average Daily Delivery = 0.917 MMdth
16/17 vs. 15/16 Volumes

Winter 16/17 vs. 15/16 (Dth)
3 Year Winter Volumes

November 1 - March 31 (Bcf)
Waddington Top 20 Receipt Days (Dth)

Operational Year In Review

• Winter 2016/2017
  – One top five, three top 20 days for Waddington receipts
  – Similar to 15/16

• Northeast Summer
  – Higher Waddington volumes
  – Generation Load – 35% decrease from 2016

• Operational Challenges
  – At operational capacity peak cold days (January – March)
  – Coordinating maintenance across regional infrastructure
  – Dominion Tie in

• Maintenance
  – Completed for 2017
  – Minimal impact to operations
## Historical Peak Day/Physical

<table>
<thead>
<tr>
<th>Location</th>
<th>Dt/d</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waddington</td>
<td>1,221,160</td>
<td>2/6/15</td>
</tr>
<tr>
<td>Brookfield</td>
<td>432,538</td>
<td>3/25/17</td>
</tr>
<tr>
<td>Waddington/Brookfield</td>
<td>1,544,556</td>
<td>3/5/15</td>
</tr>
<tr>
<td>TGP</td>
<td></td>
<td></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>NYF System</td>
<td></td>
<td></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>1,534,051</td>
<td>3/5/15</td>
</tr>
</tbody>
</table>
2016/2017 Lessons Learned

- Waddington scheduled to capacity on peak cold days
  - Reduced receipts at Brookfield

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

- Critical Notices
  - No overruns
  - Uniform takes
  - Meter/Point restrictions

- Peak generation loads this past summer

- Increased Gas/Electric Communications helpful
Maintenance 2017

• Spring Maintenance,
  – 24 “ ILI MLV 32– MLV 36
  – 36” ILI – Loop
  – DETI Tie in

• Fall Maintenance,
  – DETI Commissioning (11/1 In Service)
  – VSAT back up (Cell Modem) at MLV’s
2017 Winter Outlook

- Maintenance complete – all compression tested
- Forecasted to be colder compared to last winter
- Continued Gas/Electric communication
- New Receipt Points (DETI & XNG)
- Peak day restrictions:
  - Waddington receipts
  - Through Compressor Stations (Wright, Athens & Milford)
  - Operational Flow Orders (OFO’s)
  - Uniform flows