Major Projects

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Major Projects – A Core Competency

New for 2013

- Additional VP US Liquids Execution
- 15 new projects

Stats

- Staff – 1,400+
- Field – 10,000+
- Portfolio – $23B

President, Liquids Pipelines & Major Projects

Steve Wuori

Senior VP Major Projects

Byron Neiles

VP Offshore & Gas Execution

VP U.S. Liquids Execution

VP U.S. Liquids Execution

VP CDN Liquids & Green Execution

VP CDN Oil Sands Execution

VP EPC & Gas Distribution Execution
Cumulative Executed Capital

<table>
<thead>
<tr>
<th>Year</th>
<th>Executed</th>
<th>In Execution</th>
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<tbody>
<tr>
<td>2009</td>
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<td></td>
</tr>
<tr>
<td>2010</td>
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<tr>
<td>2013</td>
<td>20</td>
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$ Billions
Project Development Expertise

- Early scope definition
- Well known corridors
- Comprehensive historic costs
- Standardized designs
- Reliable cost estimates and schedules
Secured Supply Chain and Resources

- Multi-year goods & services frame agreements
- Growing & diversifying supply chains
- Up to 70% of costs locked-in
- Scalable workforce
- Zero incident quality culture
Regulatory and Permitting Effectiveness

- 100% received; 90% on time

- 40% of US permits received ahead of statutory timelines

- 6 key Oil Sands applications required no hearings

- 6 major applications approved by the NEB in less than 22 months

- Emphasis on integrity & safety
Towards Zero Incident Safety Culture

- 10,000+ temporary workforce

- Zero incident culture alignment with contractors

- Aggressive focus on leading indicators

- Prevention, training and surveillance

- Enbridge led industry round tables

MP Historical Safety Performance

<table>
<thead>
<tr>
<th>Year</th>
<th>MP TRIF Frequency</th>
<th>3 Year Rolling Avg</th>
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<tbody>
<tr>
<td>2009</td>
<td>1.5</td>
<td></td>
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<tr>
<td>2010</td>
<td>0.84</td>
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<tr>
<td>2011</td>
<td>1.28</td>
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<td>2012</td>
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<td>2013</td>
<td>1.03 YTD</td>
<td>50%</td>
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Proven Execution Track Record

- Repeatability
- Disciplined control: cost, schedule and quality
- Rigorous risk identification and mitigation
- Extensive governance and reporting
- Experienced workforce
Athabasca Twinning

• The Project:
  – Twinning of Line 19 for 450 kbpd up to 800 kbpd
  – 346 km of 36” pipeline
  – 2 pump stations

• Budgeted cost:
  – $1.2 billion

• In-service date:
  – Q3 2015

• Advantages:
  – Opposition engagement = no hearings
  – 70% of costs secured prior to construction; frame agreement
  – Familiar corridor
Line 9 Reversal & Expansion

• **The Project:**
  - Reversal and expansion of Line 9 to 300 kbpd

• **Budgeted cost:**
  - $0.3 billion

• **In-service date:**
  - Line 9A Reversal: Completed Aug 2013
  - Line 9B Reversal / Expansion: Q4 2014

• **Advantages:**
  - Re-reversal of existing pipeline; limited scope
  - Coalition driving support for reversal
• **The Project:**
  – Expansion from 450 kbd to 800 kbd in 2 phases

• **Budgeted cost:**
  – $1.1 billion

• **In-service date:**
  – Ph. 1 to 570 kbd: Q3 2014
  – Ph. 2 to 800 kbd: Q3 2015

• **Advantages:**
  – Leveraged existing footprint
  – Implemented standardized design with frame agreement
  – Secured US and Canadian construction permits; construction underway
Flanagan South

- **The Project:**
  - 590 miles of 36” pipeline
  - Capacity: 600 kbdp
  - 7 pump stations

- **Budgeted cost:**
  - $2.8 billion

- **In-service date:**
  - Mid 2014

- **Advantages:**
  - Disciplined regulatory plan = on-time permits
  - Familiar corridor
  - 70% of costs secured prior to construction
Relentlessly Focused on Execution

- Dedicated, scalable construction capability
- Rigorous controls and governance
- Disciplined processes
- Majority of projects tracking on time and budget
- Proven track record