EPNG / Mojave
2018-19 Winter Preparedness

Kinder Morgan Western Region Pipelines
October 31, 2018
Agenda

- Operations Overview
- Emergency Communication
- Winter Preparedness Planning
- Maintenance Planning Process
- Remaining 2018 Planning Maintenance
- Gas Control Contacts
Operations Overview
EPNG System Overview
Supply Locations and Flow Direction
EPNG Total System
2012-2018 Throughput Trends (MMcf/d)
San Juan Basin
2011-2018 Throughput Trends (MMcf/d)

EPNG San Juan Basin Receipts

Daily Average MMcf

1-Jan 1-Feb 1-Mar 1-Apr 1-May 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec

2011-2017 2016 2017 2018
North Mainline
2011-2018 Throughput Trends (MMcf/d)
Permian Basin
2011-2018 Throughput Trends (MMcf/d)
South Mainline
2011-2018 Throughput Trends (MMcf/d)
Emergency Communications

Shipper and Stakeholder Mass Communication

- EBB Notices
- Emails to shipper-maintained group email addresses
- Telephone message sent by EPNG to emergency contacts
- System Status Hotline (1-855-762-0100) parties can call for a recorded status of the system (updated as needed throughout an event)

- Standard critical notice to promote quicker action
- Banner on internet homepage to alert users to an emergency
Winter Preparedness Plans

**Staffing**
- Gas Control is 24 x 7 x 365.
- Field technicians are on-site or on-call.

**Local Facility preparation (Begin about November 1\textsuperscript{st})**
- Vehicle inspections – prepare vehicles for cold weather.
- Two-Way Radio functional tests
- Facility inspections with focus on weatherproofing.
  - Heat tracing, heat lamps, thermal blankets, etc.
- Snow Removal Equipment Inspection *(Where applicable)*
- Assessment of back-up power needs *(existing stand-by generation and rental generators as deemed necessary)*.
Winter Preparedness Plans (Cont)

Communication and Coordination
- Customer-specific winter preparedness meetings or communications.
- Monitor Weather Forecast.
- Conference Calls between Gas Control and Operations to discuss preparations.
- Shipper and Stakeholder Mass Communication via EBB notices and text messages.
- Shipper-Specific Communications.

Operational Response
- Multiple flow paths for supply to reach the market.
- EPNG has developed excellent working relationships with both affiliated and non-affiliated interconnecting pipelines which provide additional layers of contingency management in responding to emergency situations.
Maintenance Planning Process and Communication
Maintenance Planning Process

Annual Maintenance Planning Process

July/August – Process Begins
- Review of annually recurring maintenance
- Development of Pipeline Integrity project list for the next year.
- Development of additional O&M and project related maintenance outages for the next year.

October
- Gas Control preliminary review.
- Project Planning Meeting with Project Engineering, Pipeline Engineering and Operations to review global schedule.

November
- Gas Control Review of Global Schedule.
- Operations meetings/concalls to resolve scheduling conflicts.
- Preliminary capacity impact analysis by System Design for larger outages.
- Approval of Annual Plan.

Communication to Customers
- December 15 - Annual Plan for 1st Quarter posted to EBB.
- Mid-March - Annual Plan updated for the remainder of the year posted to the EBB.
Maintenance Planning Process

Communication to Customers

**Annual Maintenance Plan**
- December 15 - Annual Plan for 1st Quarter posted to EBB.
- Mid-March - Annual Plan updated for the remainder of the year posted to the EBB.
- Updated as required throughout the year.

**Monthly Maintenance**
- Monthly schedule posted 9 business days before the following month.
- Updated as required prior to and during the month.

**EBB**
Planned Maintenance
Nov 2018 – Dec 2018
November - December Maintenance Highlights

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<th>Item</th>
<th>Start Date</th>
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Gas Control Contacts
Gas Control Contacts

- **Russ Pyeatt - Manager**
  - (719) 520-3729 (office)
  - (505) 320-4556 (cell)
  - russ_pyeatt@kindermorgan.com

- **Dan English - Lead Controller**
  - (719) 520-4722 (office)
  - (719) 659-3210 (cell)
  - dan/english@kindermorgan.com

- **Vic Villalva - Maintenance Planner**
  - (719) 520-4251 (office)
  - (719) 482-6914 (cell)
  - vic_villalva@kindermorgan.com