

EPNG / Mojave 2020-21 Winter Preparedness

Kinder Morgan Western Region Pipelines
November 3, 2020

Agenda

- Kinder Morgan Overview
- COVID-19 Response
- Operations Overview
- Emergency Communication
- Winter Preparedness Planning
- Maintenance Planning Process
- Remaining 2020 Planned Maintenance
- Gas Control Contacts

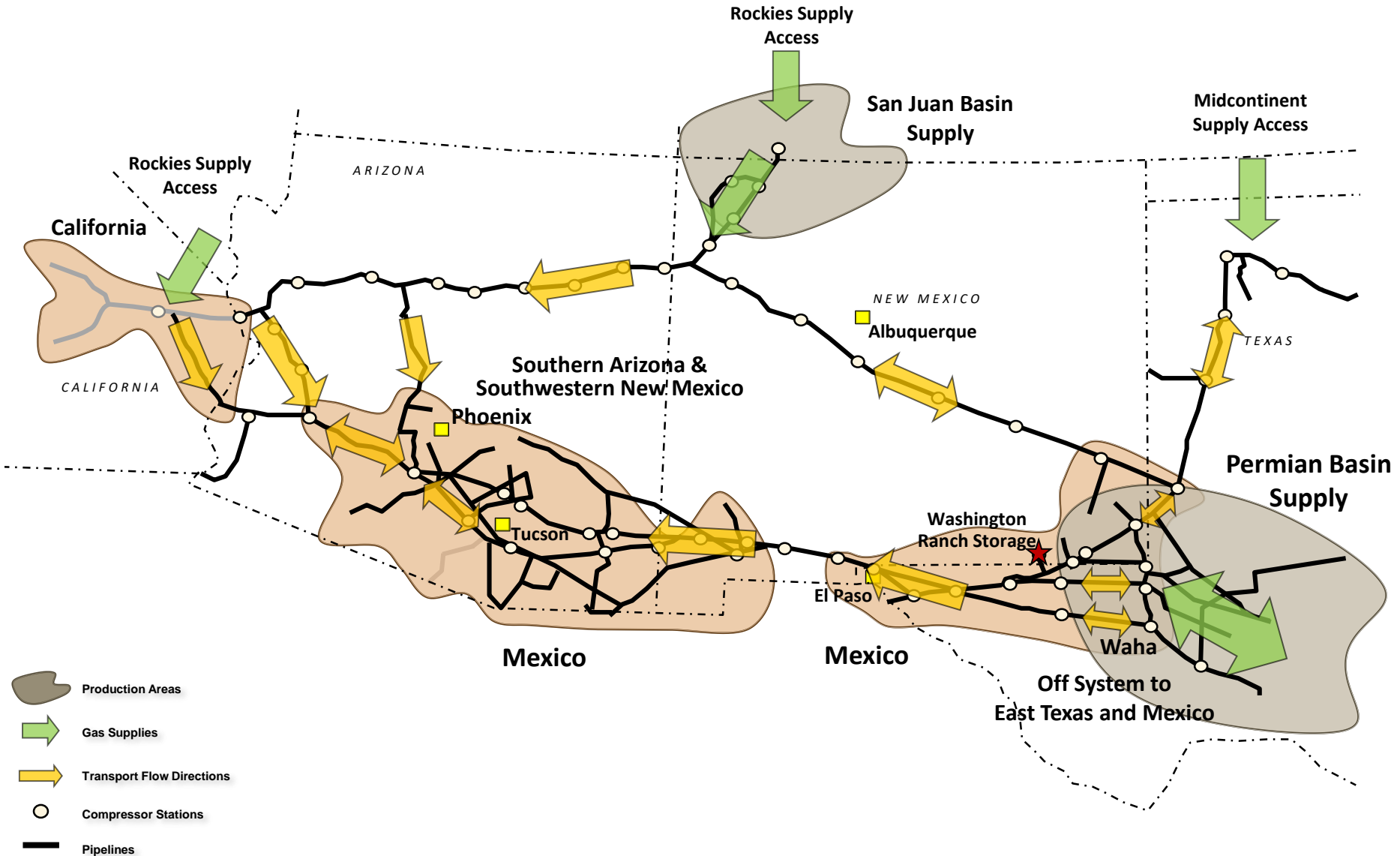
COVID-19 Continued Response

- Colorado Springs Office instituted telecommuting March 16.
- Business Operations Continue without interruption.
- Gas Control
 - Social Distancing Precautions
 - Four separate control rooms setup in the building.
 - Each Controller has a separate control room.
 - Control Room floor access restricted.
 - Control Room access restricted to Controllers Only.
 - Restroom Access restricted on controller floor.
 - Controller Shift Briefs by collaboration software between control rooms.
 - Collaboration Software utilized to provide controller-to-controller communications.
 - Daylight (third) Controller telecommuting.
 - Lead Controllers telecommuting with full ability to control from home.
 - Extra Controller kept in reserve at home.
 - Backup Control Room kept in reserve for controllers that have recovered from virus.
 - Provided masks to Controllers for individual and family use.
 - Controllers verify personal temperature before/end of each shift.
 - Four “Control from Home” setups available.

Operations Overview

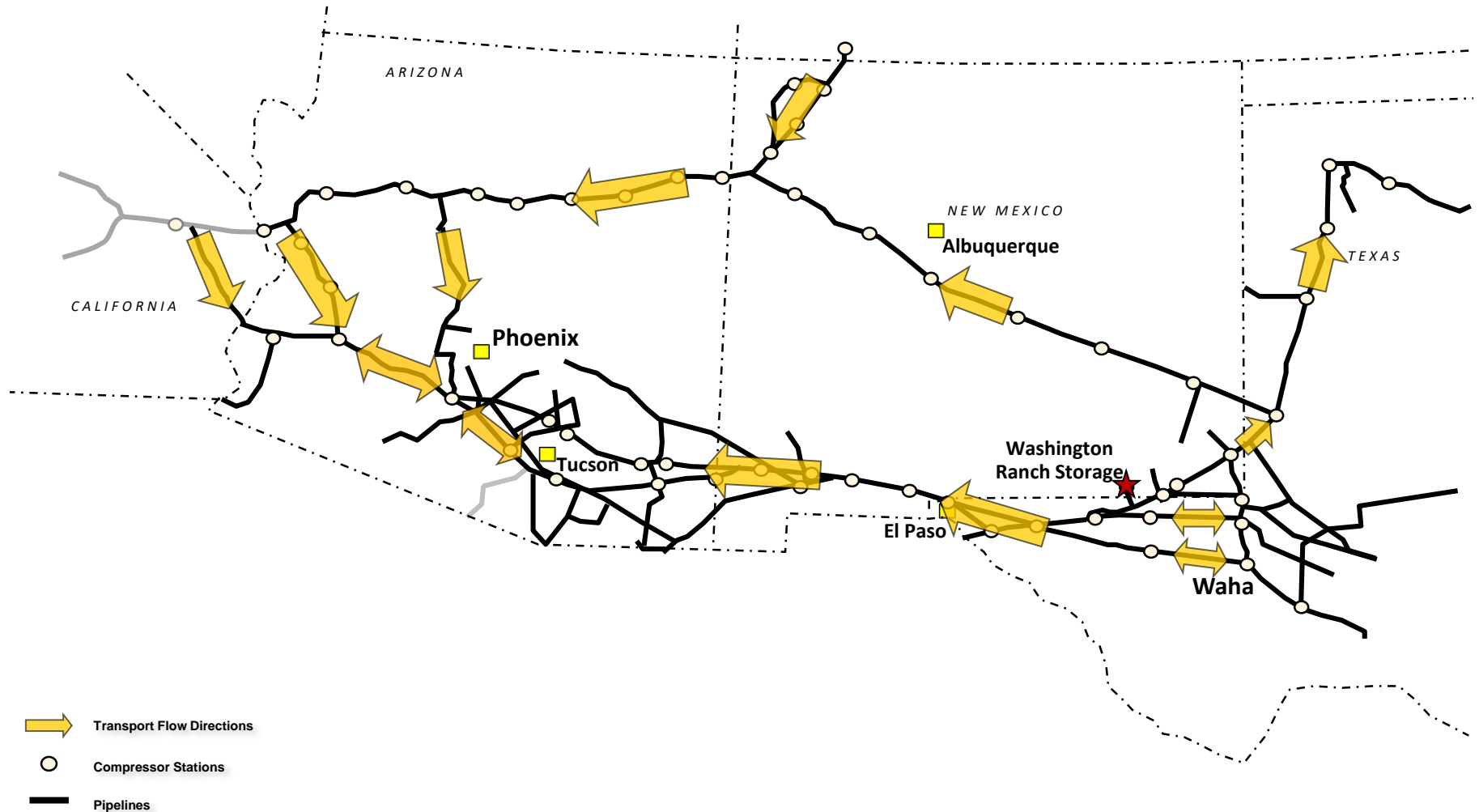
EPNG System Overview

Supply Locations and Flow Direction



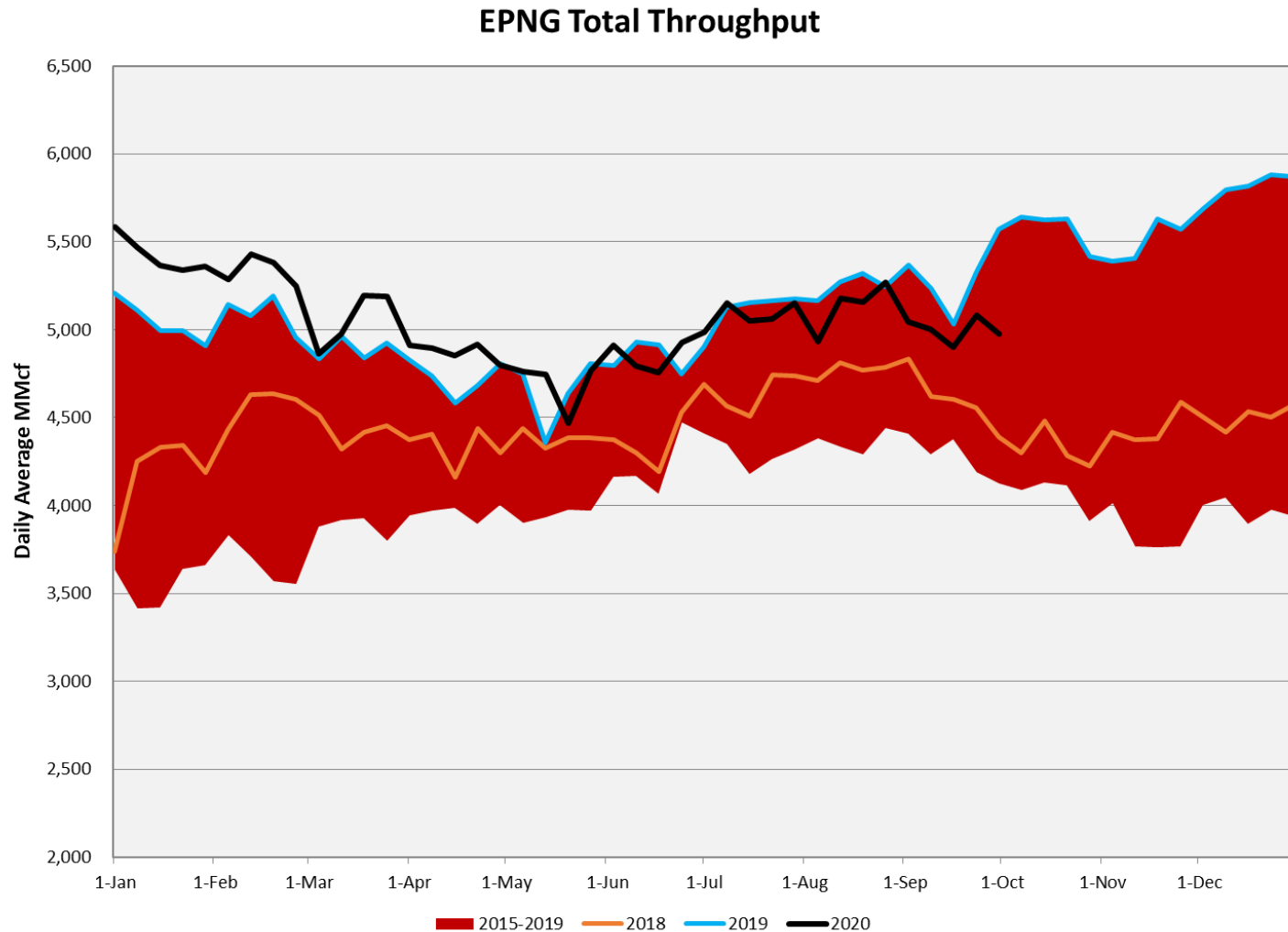
EPNG Operations

Current Flow Direction



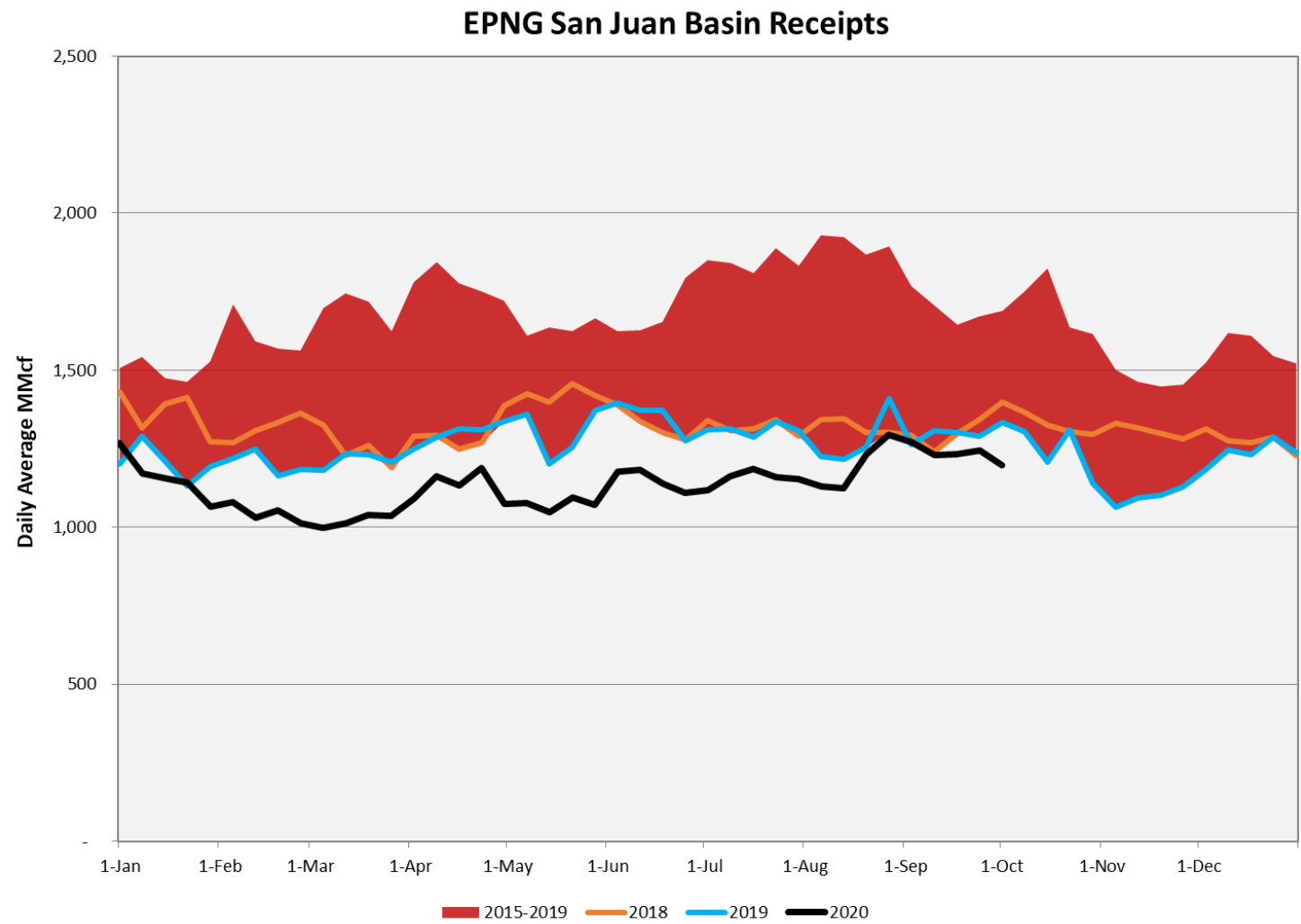
EPNG Total System

2015-2020 Throughput Trends (MMcf/d)



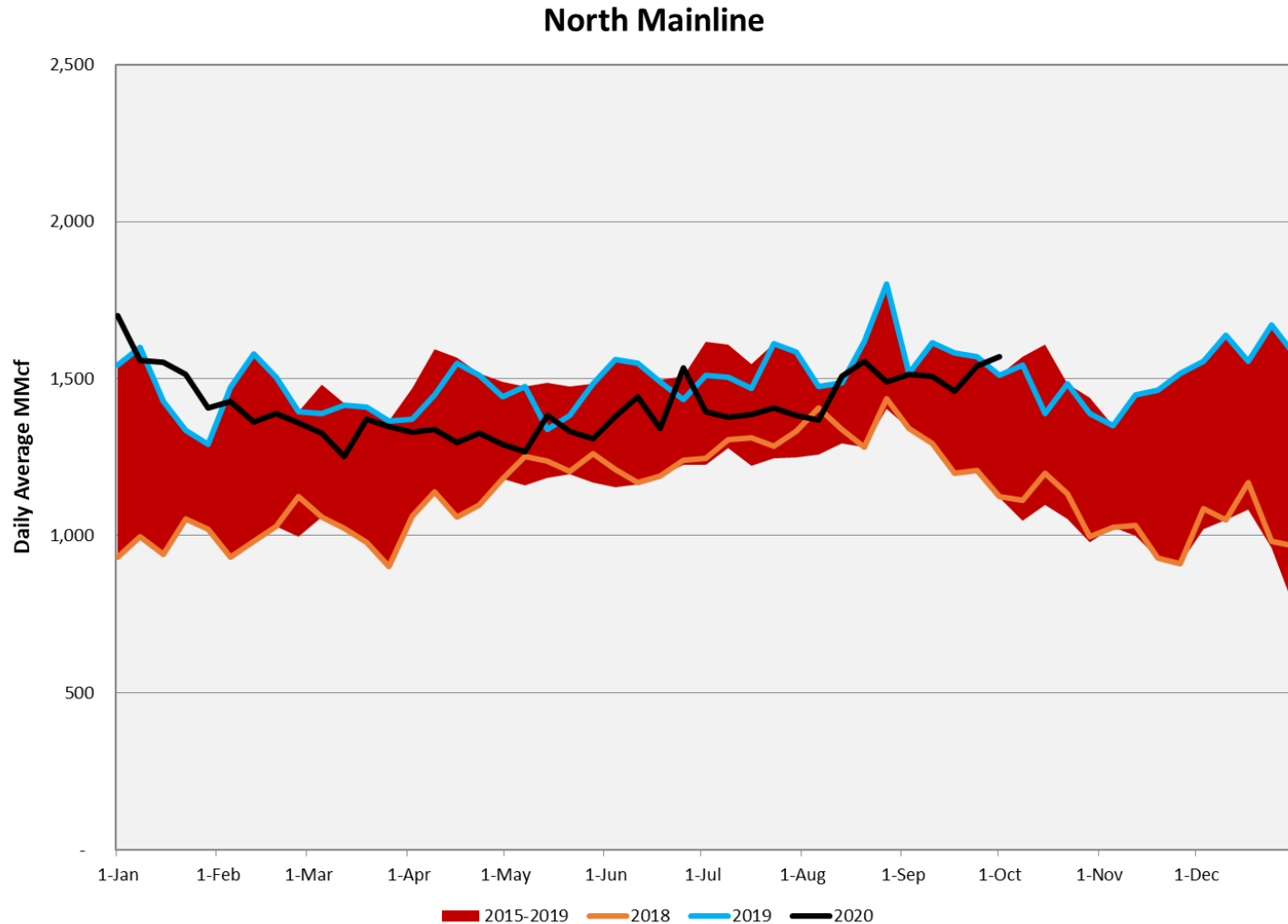
San Juan Basin

2015-2020 Throughput Trends (MMcf/d)



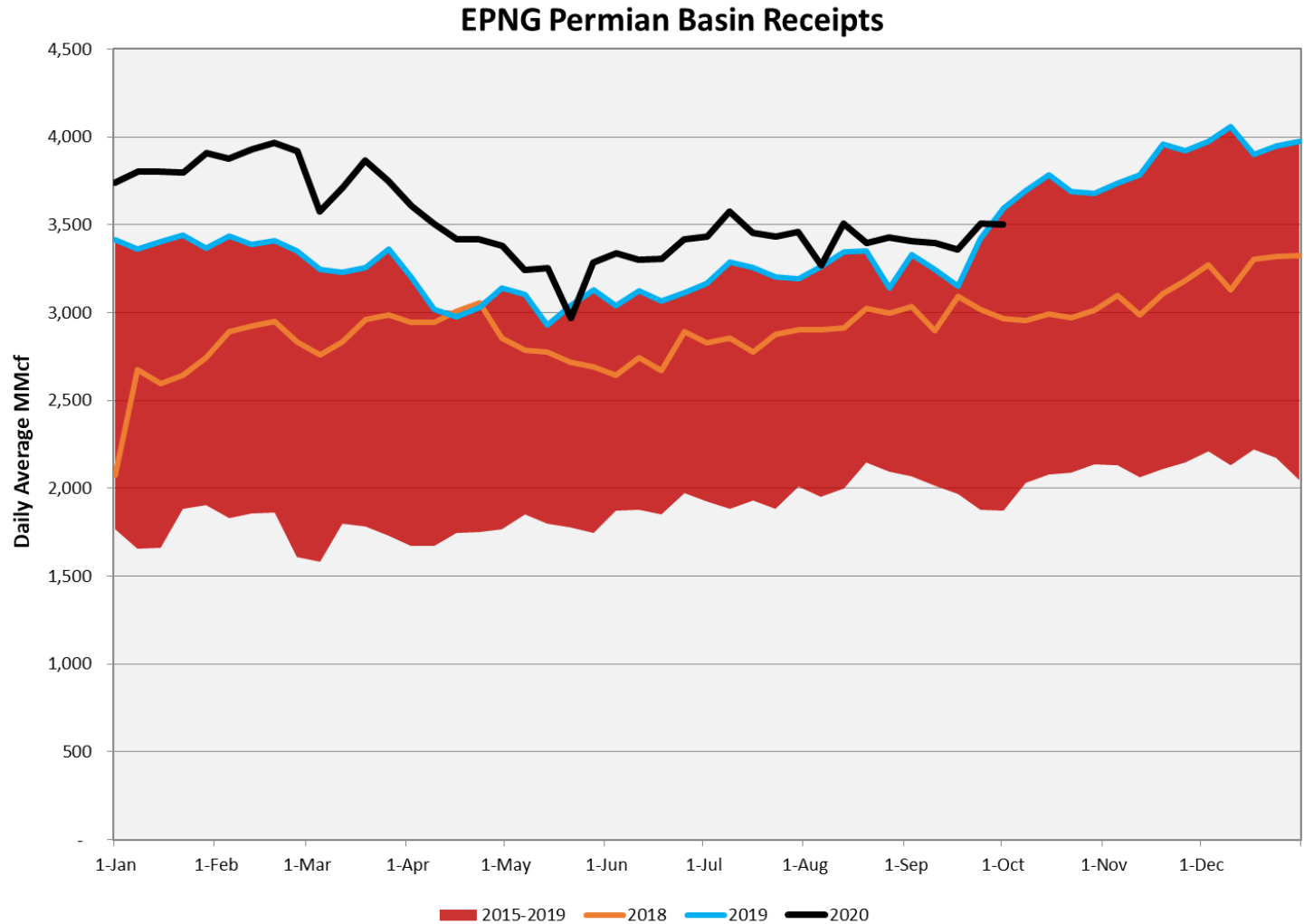
North Mainline

2015-2020 Throughput Trends (MMcf/d)



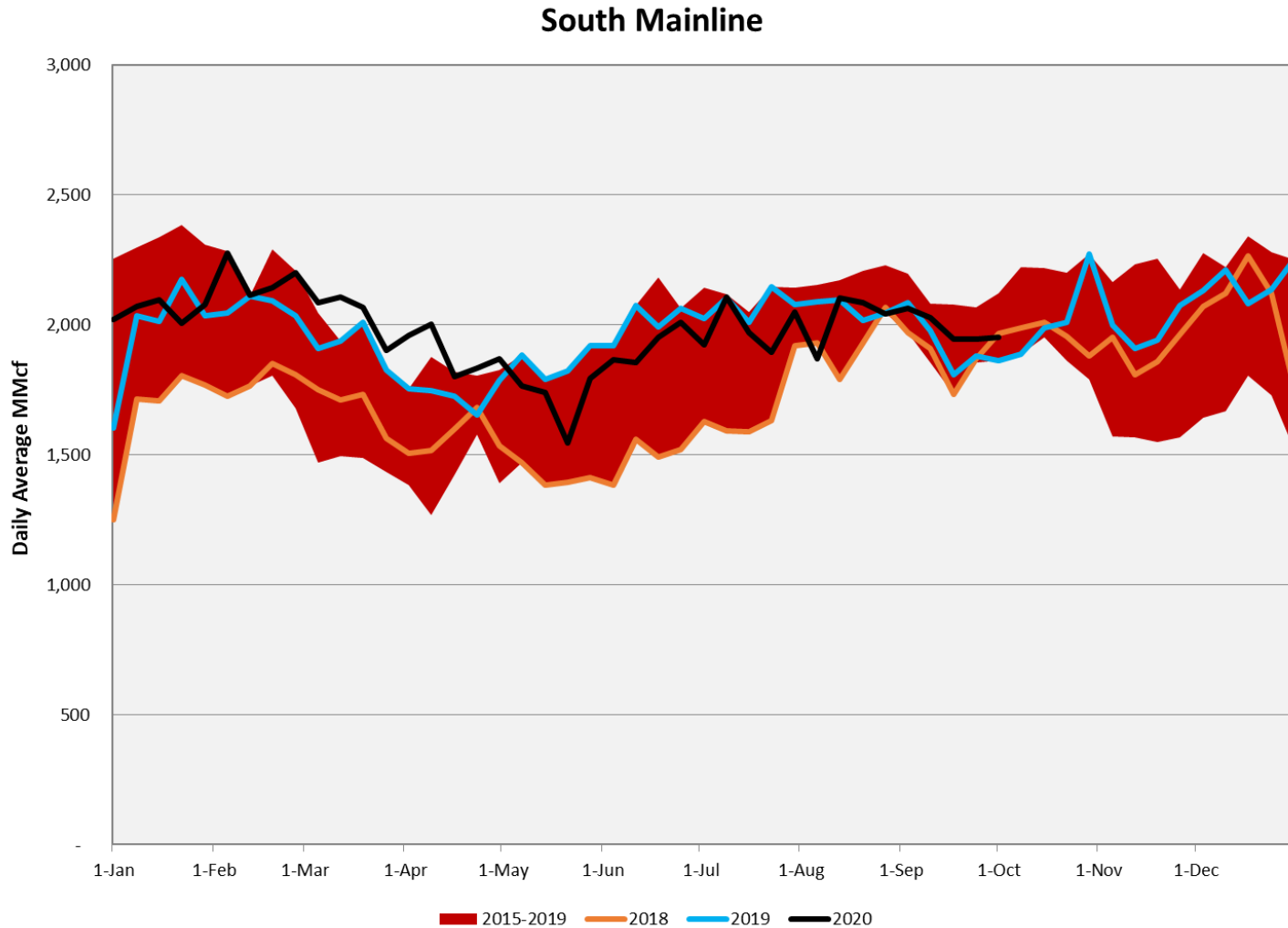
Permian Basin

2015-2020 Throughput Trends (MMcf/d)



South Mainline

2015-2020 Throughput Trends (MMcf/d)



Emergency Communications (COC Conditions)

- 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 1st)

- 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.
- Shipper-Specific Communications.

● Operational Response

- Multiple flow paths for supply to reach the market.
- Access to supply area storage: Washington Ranch, Keystone Gas Storage and Merchant Ranch Storage.
- 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 (continued)

● Monthly Maintenance

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

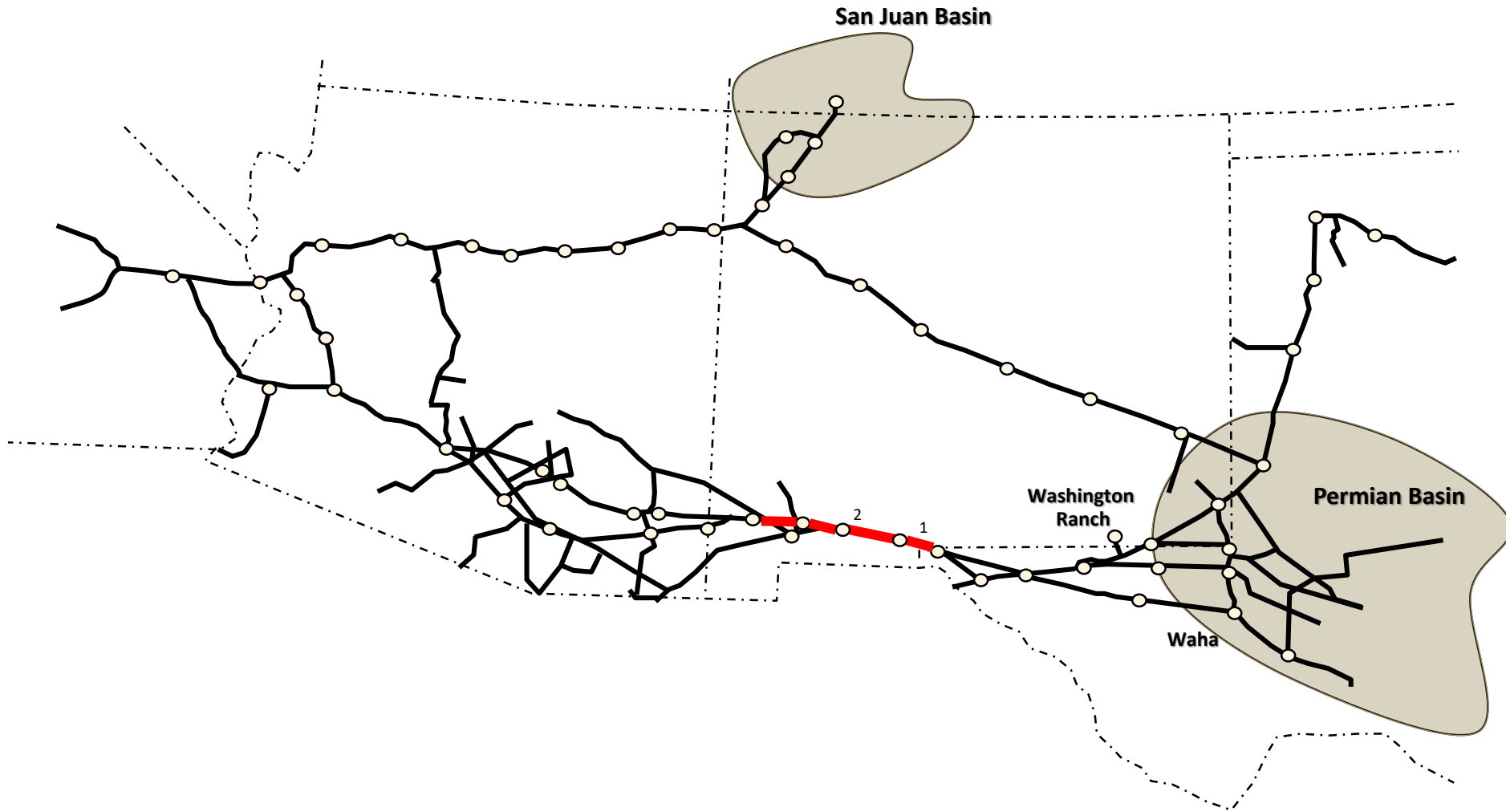
● EBB

- EPNG - <http://pipeportal.kindermorgan.com/PortalUI/DefaultB.aspx?TSP=EPNG>
- Mojave - <http://pipeportal.kindermorgan.com/PortalUI/DefaultB.aspx?TSP=MOPC>
- Sierrita - <http://pipeportal.kindermorgan.com/PortalUI/DefaultKM.aspx?TSP=SGP>

Planned Maintenance

Nov 2020 – Dec 2020

November - December Maintenance* Highlights



Item	Start Date	End Date	Location	Line	Description	Reduction (MMcf/d)
1	10/13/2020	11/10/2020	EP W DIST	1103	Line 1103 Hydrostatic Pressure Test El Paso to Afton	500
2	11/21/2020	11/24/2020	EP W DIST	2000	Line 2000 Inspection Afton to Lordsburg	356

*Maintenance Reflects System Impacts >250 MMcf/d

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
- **Tim Fuller- Lead Controller**
 - (719) 520-4339 (office)
 - (719) 377-7471 (cell)
 - timothy_fuller@kindermorgan.com
- **Vic Villalva - Maintenance Planner**
 - (719) 520-4251 (office)
 - (719) 482-6914 (cell)
 - vic_villalva@kindermorgan.com