

February 24, 2016 Questar Gas IRP Workshop

2016 IRP Schedule

- February 24, 2016 - Workshop
- April 6, 2016 – Workshop
- May 4, 2016 – Workshop
- June 23, 2016 – Technical Conference

Agenda

- Dominion
- Review of the 2015 Commission IRP Order
- IRP Standards and Guidelines
- Ryckman Creek Storage Update
- Meeting Peak-Hour Demands

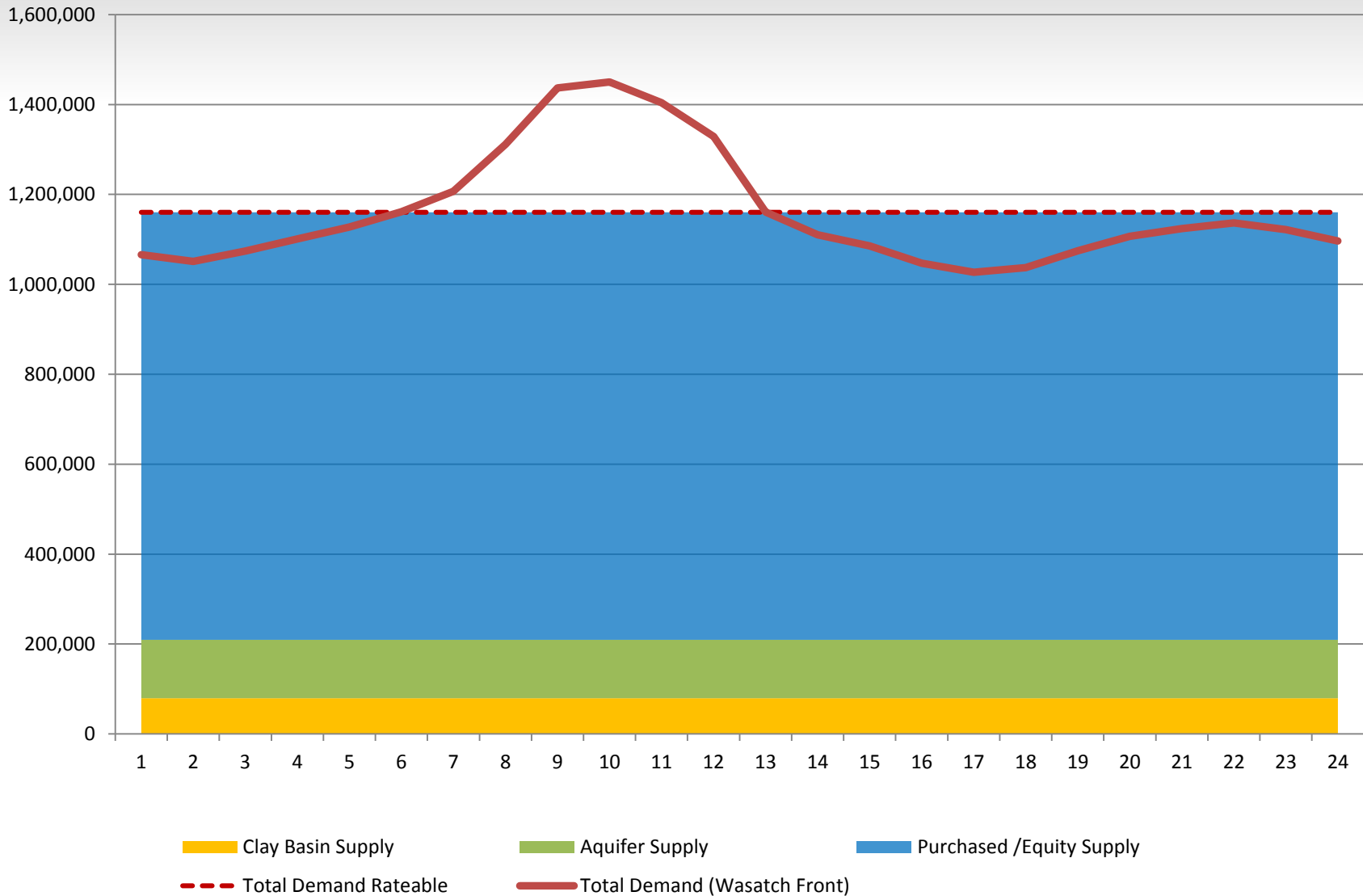
Review of the 2015 Commission IRP Order

- Heat Pumps and Impact of Energy Efficiency on Peak-Day Demand will be Included in the 2016-2017 IRP
- 2014 Variance Report Exhibit 10 (Exhibit B)

IRP Standards and Guidelines (2009)

Guideline	Update
Review latest quarterly variance report	April meeting
Changes to customer growth models	No significant changes
Changes to linear programming optimization (LPO) model (SENDOUT)	1. Added constraints for aquifer inj/wd 2. Included new rate-of-return for COS
Changes to DSM models	No significant changes
Supply/demand forecasts, SENDOUT and DSM results	IRP Report
Gas quality and gas storage issues	Monitor survey and Ryckman update
Changes to Gas Network Analysis (GNA) models	1. HP models to be built from new HGIS 2. Demand calculation assumptions (HP)
GNA model results	May meeting
Integrity management issues	To be presented in April integrity meeting
Other issues	Scheduled as needed

Meeting Peak-Hour Demands



Potential Solutions

- Questar Gas is Conducting Two Requests for Proposals (RFP)
 - RFP for an on-system LNG storage facility
 - RFP for upstream pipeline services to meet peak-hour demand requirements
 - Both RFPs to be issued in the next couple of weeks



On-system LNG

■ Benefits

- Reliable source of supply controlled by the LDC
- Operational flexibility to be used exclusively to meet peak-hour demand
- Owned and operated by Questar Gas
- No incremental upstream pipeline capacity
 - No ongoing upstream transportation costs
 - Not subject to nomination cycle limitations and constraints
- Baseload demand on the system during warmer months
- Diversity of storage in Questar Gas' portfolio

Upstream Pipeline Services

- Requirements
 - Services to meet as much as 300,000 Dth/day of instantaneous demand increases (“swings”) during peak hours outside of NAESB schedule

Questions??