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JOINT AGENCY WORKSHOP ON ENERGY RELIABILITY IN SOUTHERN CALIFORNIA

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Summer 2018 Outlook Summary

- » SoCalGas expects its current pipeline outages to extend through at least the peak EG summer demand period.
- » With these pipeline outages, SoCalGas will be challenged to fill storage inventory for the upcoming winter season.
 - Insufficient receipt capacity to both serve summer customer demand and fill storage.
- » Without the use of Aliso Canyon, SoCalGas can support a summer EG demand of 1.7 to 1.8 BCFD. With total system capacity of 3.2 to 3.4 BCFD.
- » Greater use of Aliso Canyon can mitigate curtailments and increase storage inventories in the other storage fields.

2018 Summer “Peak” Demand Forecast

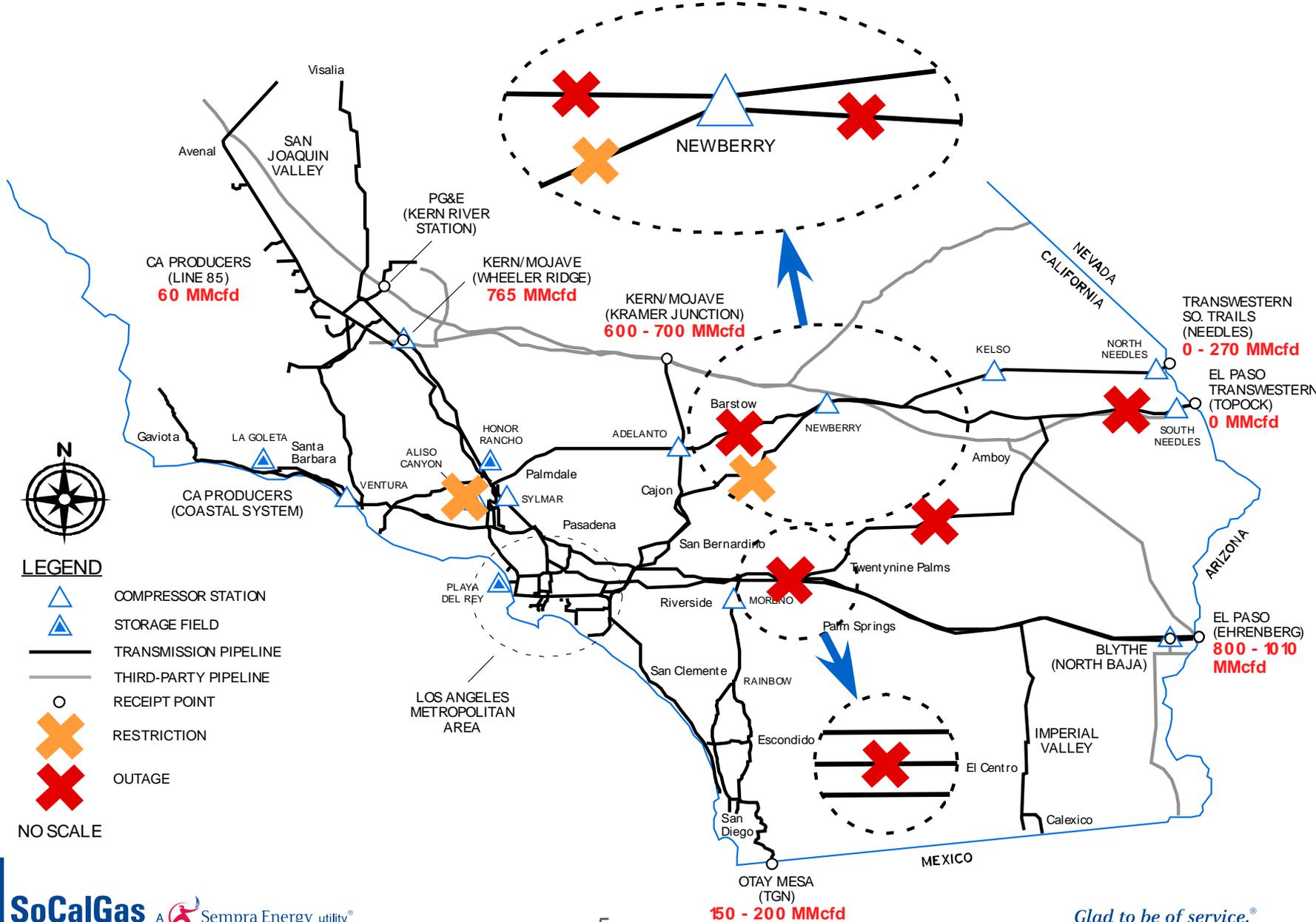
CUSTOMER TYPE	SUMMER DEMAND (BCFD)
Core	0.770
Noncore, Non-Electric Generation	0.770
Noncore Electric Generation (EG)	1.971
Total	3.511

- » Average core/non-EG noncore summer demand.
- » SoCalGas EG demand forecast derived from 2017 peak summer demand.
- » CAISO/LADWP technical assessment forecasts a minimum peak summer EG gas demand range of 1.4 to 1.8 BCFD depending on available import supplies and contingencies.

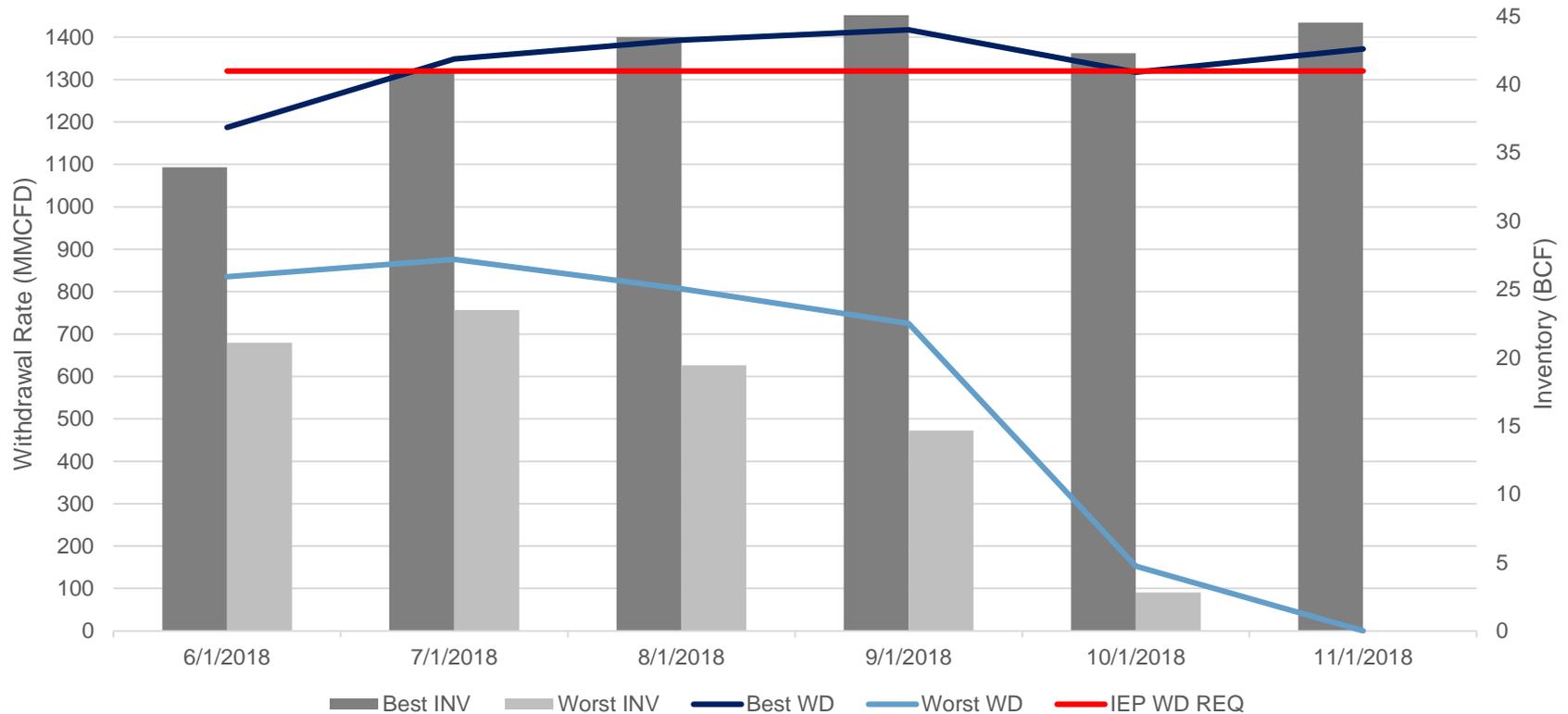
SoCalGas Summer Receipt Capacity

Receipt Point	“Best Case” Supply (MMcfd)	“Worst Case” Supply (MMcfd)
Blythe	1,010	800
Otay Mesa	200	150
North Needles	270	0
Topock	0	0
Kramer Junction	600	700
Wheeler Ridge / Kern River Station	765	765
California Production	60	60
Total Pipeline Receipts	2,905	2,475
Assume 85% Utilization	2,478	2,113

SoCalGas Current System Outages



Summer Storage Assessment (Non-Aliso)



- » “Best Case” pipeline supplies allow for maintaining the IEP directive of 1,320 MMcfd of withdrawal through the summer.
- » “Worst Case” pipeline supplies are insufficient for demand.
 - Non-Aliso fields are completely depleted of inventory in October.
 - 95% receipt point utilization improves inventory, but 1,320 MMcfd of withdrawal cannot be maintained through the peak summer period.

Maintaining Summer Energy Reliability

- » SoCalGas remains focused on increasing its storage inventory.
 - Advice Letter 5275 filed March 30, 2018 to further enhance storage injection capability to increase inventory.
- » SoCalGas will continue to coordinate operations with CAISO and LADWP.
- » SoCalGas will use OFOs and the Aliso Canyon Withdrawal Protocol which includes curtailments.
- » Maintenance will continue to be scheduled during periods of low demand except for identified safety issues or regulatory requirements.
- » SoCalGas is still reviewing the agencies' technical assessment and has some concerns with regards to the assumptions and conclusions and the viability and practical implementation of the suggested mitigation measures.

Questions?

» Thank you for your time and attention.

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