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**JOINT AGENCY WORKSHOP ON ENERGY
RELIABILITY IN SOUTHERN CALIFORNIA**

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Summer 2019 Outlook Summary

SoCalGas has evaluated Best and Worst case scenarios of system outages and impacts through the summer season.

Best Case: Sufficient receipt capacity to fill storage inventory for the upcoming winter season and able to meet forecast peak day demand without the use of Aliso Canyon.

Worst Case: Insufficient receipt capacity to both serve summer customer demand and fill storage; unable to meet forecast peak day demand without curtailment or the use of Aliso Canyon.

2019 Summer “Peak” Demand Forecast

CUSTOMER TYPE	SUMMER DEMAND (BCFD)
Core	0.808
Noncore, Non-Electric Generation	0.794
Noncore Electric Generation (EG)	1.766
Total	3.368

- » Average core summer demand.
- » SoCalGas EG demand from the 2018 California Gas Report (CGR) Summer 2019 forecast.

2019 Summer Scenario Evaluation

Existing Conditions

- » Line 235-2 is out of service for line repair.
- » Line 4000 has scheduled outage for in-line inspection validation digs.

Best Case Scenario

- » Line 235-2 and Line 4000 are returned to service and operating at reduced pressures during the summer season.
- » Sufficient gas supply is available at the Otay Mesa receipt point to fully utilize the Southern Zone receipt capacity.

Worst Case Scenario

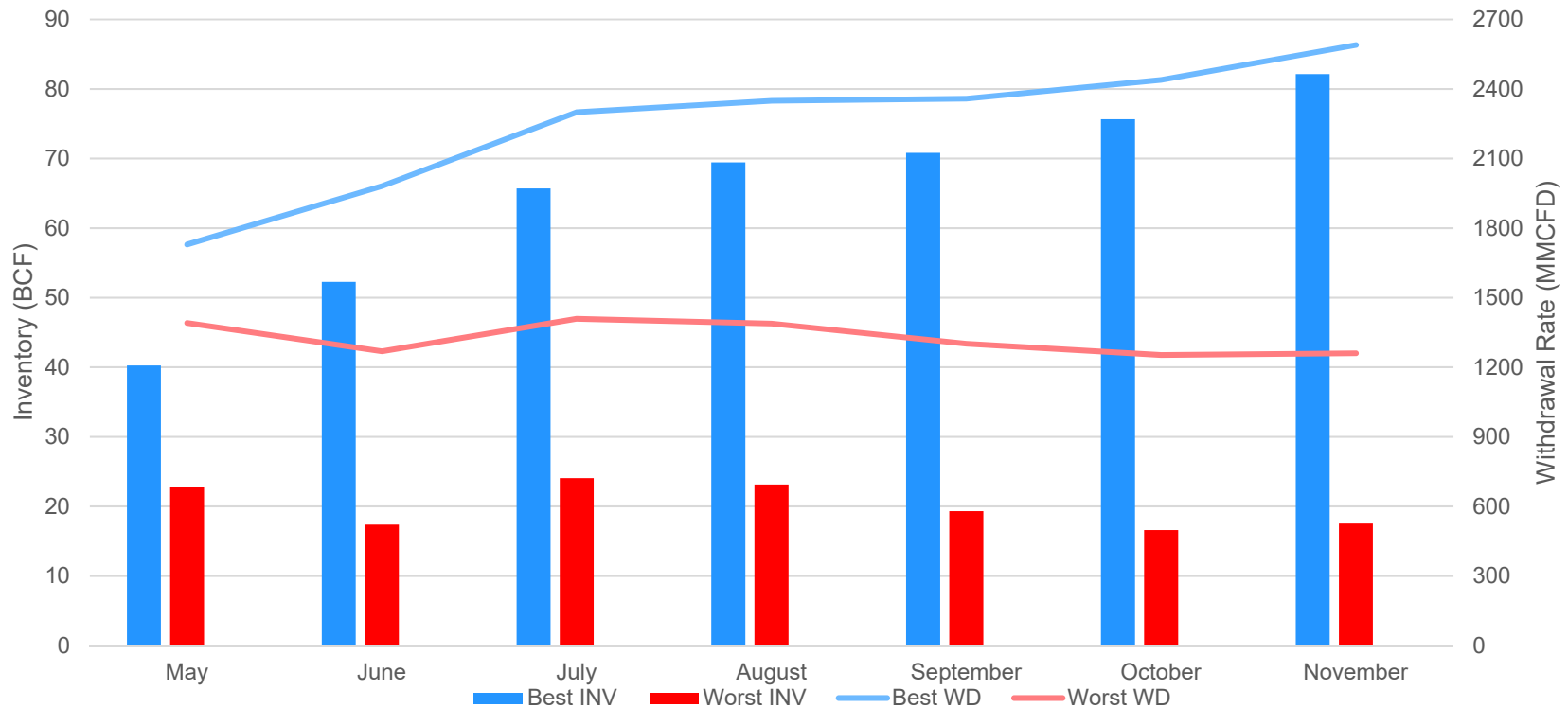
- » Line 235-2 and Line 4000 are unavailable.
- » Reduced gas supply at Otay Mesa reflecting historical performance.

SoCalGas Summer Receipt Capacity

Receipt Point	“Best Case” Supply (MMcfd)	“Worst Case” Supply (MMcfd)
Blythe	980	980
Otay Mesa	230	150
North Needles	430	0
Topock	400	0
Kramer Junction	420	700
Wheeler Ridge / Kern River Station	765	765
Total Pipeline Receipts	3,225	2,595
Assumed Utilization	2,741 (85%)	2,465 (95%)
California Production	70	70
Assumed Supply	2,811	2,535

- Higher utilization in “Worst Case” reflecting less supply and tighter balancing

Summer Storage Assessment (Non-Aliso)



- » “Worst Case” pipeline supplies are insufficient to meet demand and prepare the system storage for the winter 2019 season.
- » 95% receipt point utilization all summer during a “Worst Case” improves inventory end of summer inventory by 18 BCF, but is still inadequate for the winter season.

Retaining & Restoring Receipt Capacity

- » SoCalGas has made an incremental 150 MMcfd of receipt capacity available at Kramer Junction.
- » Last summer:
 - SoCalGas reached a tentative agreement with the Morongo Band of Mission Indians to renew the rights-of-way agreements for Line 5000 and Line 2001.
 - SoCalGas completed necessary remediation work on Line 3000, restoring capacity at the Topock receipt point.
- » SoCalGas is working to have both Line 235-2 and Line 4000 in service prior to November 2019.
 - Line 235-2 currently undergoing restoration procedure.
 - Line 4000 validation digs to commence afterwards.

Maintenance Outlook

- » High and low inventory shut-ins are now required at each of the storage fields.
 - Low inventory shut-in in the spring.
 - High inventory shut-in in the fall.
 - No injection or withdrawal available for duration.
 - Each field, one at a time, 2 – 3 weeks each.
- » ILI required on several major transmission lines with impact to pipeline or storage supplies.
 - L235 (May): North Needles
 - L4000, L4002 (August, September): Northern Zone
 - L225 (June, July): Wheeler Zone and Honor Rancho

Maintaining Summer Energy Reliability

- » SoCalGas will continue to coordinate operations with CAISO and LADWP.
- » SoCalGas will use OFOs and Aliso Canyon consistent with 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.

Questions?

» Thank you for your time and attention.

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