

WINTER 2022-23 TECHNICAL ASSESSMENT

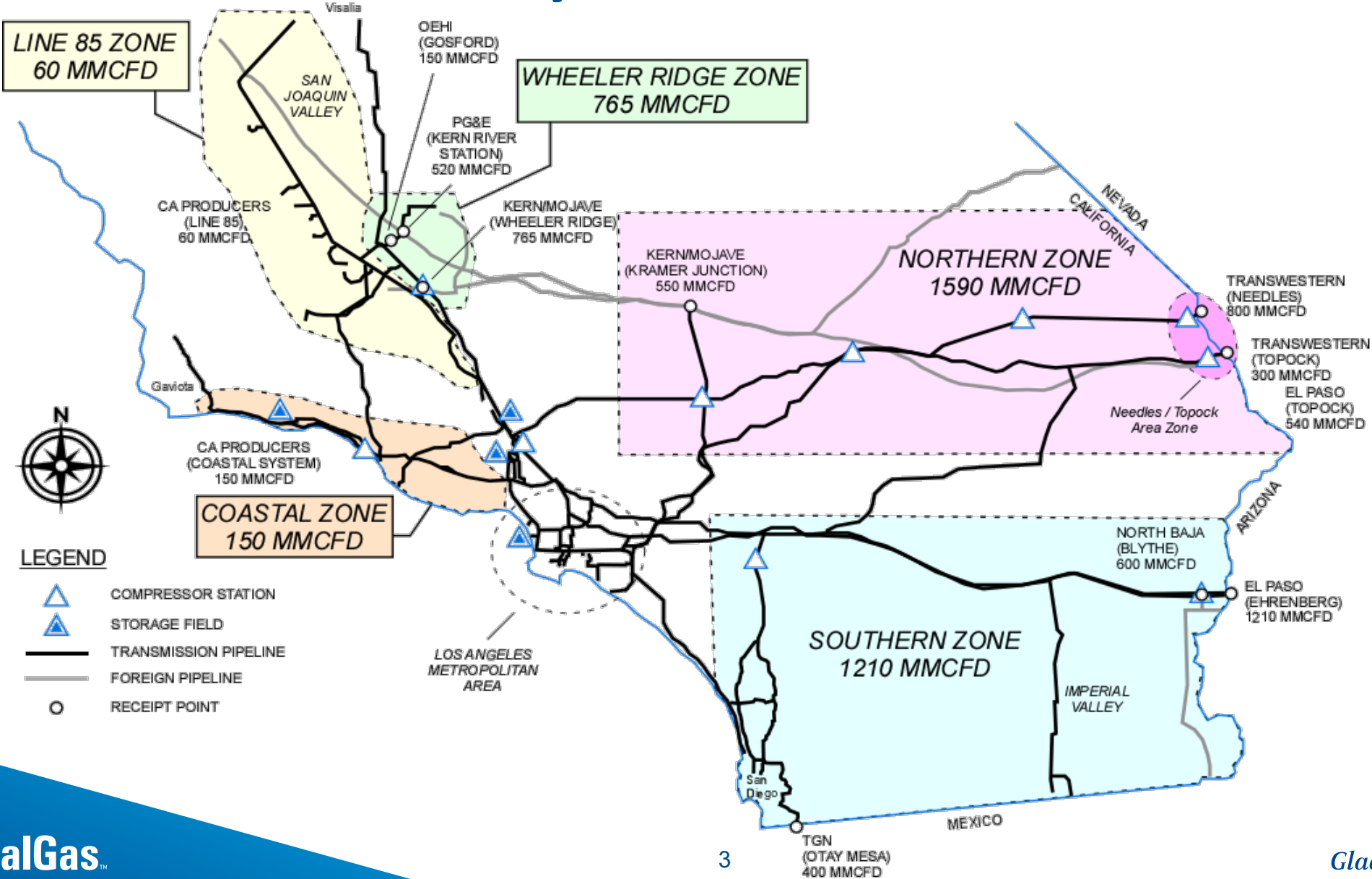
Southern California Gas Company



Findings

- » Sufficient capacity to support up to 4.25 BCF of customer demand
 - Core service is not at risk
 - Service to noncore customers may be curtailed during cold weather events
- » Sufficient gas supplies in storage to maintain service to customers through the winter season under most temperature conditions and supply assumptions
 - 8.3 BCF of noncore curtailment may be required through the winter season under cold temperature conditions if pipeline supplies or receipt capacity degrades from current level
 - Represents less than 2% of forecast winter season cold temperature demand

SoCalGas Transmission System and Zones



Transmission System Status

» Northern Zone

- Some pipelines operating at reduced pressure

» Southern Zone

- Some pipelines out of service for pressure testing

» Wheeler Zone

- All pipelines in service

Storage Field Status

- » All storage fields available for use through winter season
 - Use of Aliso Canyon remains subject to CPUC's Aliso Canyon Withdrawal Protocol
 - Aliso Canyon maximum inventory limited to 41.16 BCF, less than 50% of capacity
- » Minimum inventory levels will be maintained throughout the winter season to provide sufficient withdrawal capacity for core reliability
 - Noncore customer demand may be curtailed to maintain these inventory levels

FIELD	DEC BCF	JAN BCF	FEB BCF	MAR BCF
Aliso Canyon	22.0	16.9	14.0	4.3
Honor Rancho	13.5	12.6	7.5	5.0
La Goleta	7.9	7.7	7.6	7.5
Playa del Rey	1.6	1.5	1.1	0.7
TOTAL	45.0	38.7	30.2	17.5

Pipeline Flowing Supply Assumptions

- » Up to 3.3 BCFD of receipt capacity through winter season
 - Receipt capacity does not equal gas supply
 - Customers/shippers have historically not fully utilized all receipt capacity
- » Northern Zone supply could be impacted by potential pipeline remediation
 - Reduces current receipt capacity of 1250 MMcfd to 970 MMcfd
- » Southern Zone supply could be impacted by El Paso Pipeline's continued constraints and lack of supply at Otay Mesa
 - Upstream supply constraint, not a SoCalGas pipeline constraint
 - Available supply may be as low as 588 MMcfd due to upstream pipeline constraints and east of California demand
 - Direct impact to SDG&E
 - May require localized Southern Zone curtailment even during mild demand conditions

Winter Design Standards

CUSTOMER TYPE	1-in-35 Year Peak Day MMCFD	1-in-10 Year Cold Day MMCFD
Core	3,443	3,239
Noncore, Non-Electric Generation	0	621
Noncore, Electric Generation	0	812
Total	3,443	4,672

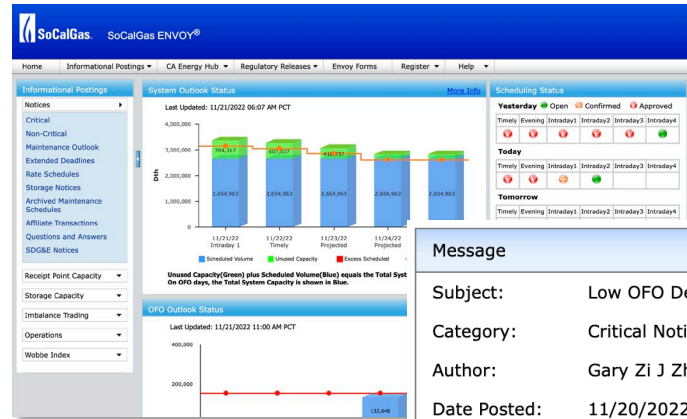
- » Design days expected to occur in December or January
 - May occur more than once per season
- » Actual peak EG demand may be higher than forecast based on summer 2022 experience
 - Summer 2022 EG demand was 700 MMcfd greater than peak summer forecast
- » Sufficient supply may be available to support the 1-in-10 year cold day demand forecast if higher storage inventory levels than those required for core reliability are maintained

Maintaining Winter Reliability

- » Regular communication with the CAISO and other grid operators
- » Use of Operational Flow Orders and available withdrawals from Aliso Canyon, consistent with the Aliso Canyon Withdrawal Protocol
- » Restricted Maintenance Operations (RMOs) on high demand days or where system constraints provide low operating margins
- » Southern System support
 - Limited supply availability from Northern System through use of crossovers
 - System Operator purchases at Ehrenberg and Otay Mesa if available
- » Conservation messaging

Check SoCalGas ENVOY® for the Latest Info

- » www.socalgas-envoy.com
- » System receipt capacities and flowing supplies
- » Storage capacities and supply
- » Critical operating notices
- » Maintenance schedules and outlook



Message

Subject: Low OFO Declared on Cycle 2 for 11/21/2022

Category: Critical Notices

Author: Gary Zi J Zhou

Date Posted: 11/20/2022 03:19:39 PM

Attachment(s):

SoCalGas has declared a Low Operational Flow Order (Low OFO) Stage 1, -5% on Cycle 2, Evening for Monday, 11/21/2022. Balancing Agents should schedule their gas based on the stage and tolerance of this Low OFO event. SoCalGas will allow the sale of additional firm Backbone Transportation Service rights for the duration of the Low OFO event.

Helpline at 213-244-

SOUTHERN CALIFORNIA GAS COMPANY PIPELINE/STATION MAINTENANCE SCHEDULE

Receipt Capacity							
Location Type	Location	Start Date	End Date	Maintenance Type	Description	Capacity Reduction (MMCF)	Capacity Reduction (Dth)
Area Zone	Needles/Topock Area Zone	10/01/2021	TBD	Planned	L4000 and L235 Operational Restrictions	510	520,710
Sub-Zone	EP-Ehrenberg/NBP-Blythe	11/17/2022	12/30/2022	Planned	L2001 Necessary Remediation, Safety / Reliability.	40	41,320
Sub-Zone	EP-Ehrenberg/NBP-Blythe	09/19/2022	01/31/2023	Planned	L2001 Hydrotest	200	206,600
Sub-Zone	EP-Ehrenberg/NBP-Blythe	03/29/2018	TBD	Planned	L2000 Right of Way Expiration. See last critical notice titled "Southern System Right-of-Way" dated 4/18/2020 for more information.	30	30,990
Sub-Zone	TW-Topock/EP-Topock	10/01/2018	TBD	Planned	L3000 Operational Restrictions	190	194,370
Zone	Northern Zone	10/01/2021	TBD	Planned	L4000 and L235 Operational Restrictions	340	349,180
Zone	Southern Zone	11/07/2022	12/16/2022	Planned	L2000 Hydrotest	150	154,950
Zone	Southern Zone	03/10/2018	TBD	Critical	Zone reduced because of seasonal load conditions	460	475,180

Storage Injection Capacity							
Location Type	Location	Start Date	End Date	Maintenance Type	Description	Capacity Reduction (MMCF)	Capacity Reduction (Dth)
Storage Field	Aliso Canyon	10/15/2022	TBD		Aliso Canyon storage field filled to the maximum authorized capacity per the November 4, 2021 CPUC	545	563,530

