



**California Public
Utilities Commission**

Aliso Canyon Reliability Briefing to the Porter Ranch Community Advisory Committee

Edward Randolph, Energy Division Director, California Public Utilities Commission

February 4, 2016

Introduction: Aliso Canyon Gas Storage Facility

- Facility is one of largest in U.S.
 - Serves 11 million citizens
 - Holds 86 billion cubic feet of working gas
- Winter and summer peak demands require gas from storage
- SoCalGas operates three other gas storage fields
 - Aliso is the only field that can effectively support demand in LA Basin.

Gas consumption is seasonal; pipe flows are limited

- Gas from Aliso provides energy during winter and summer peaks
 - Winter peaks occur on cold days when buildings use significant gas for heating.
 - Summer peaks occur on hot days, when gas-fired generators supply power to air conditioners.
- Gas delivered to LA Basin is limited by pipeline capacity and the speed at which gas moves

The SoCalGas System



T:\Projects\Special Requests 2\Roger Johnson\AlisoCanyon\AlisoCanyon_AffectedCities_SelectPowerPlantsV2.mxd

Two types of gas customers

1. Core – homes and businesses
2. Non-core – industrial users, refineries, hospitals, electric generators
 - When gas supplies are short, non-core customers are curtailed first
 - Curtailments periodically occur, due to weather, factors affecting gas supplies, or outages affecting pipeline capacity

Types of Non-Core Customers

Non-core customer type*	Count	Winter Peak MMCFD***	Summer Peak MMCFD***
Hospitals	61	26	24
Electric generation	18	1,085	1,266
Refineries	14	501	501
Municipal government	4	4	3
Other**	315	306	275
Total	412	1,922	2,069

*Count is comprised 412 bill accounts in the North and South LA Basin. Some customers may have more than 1 bill account.

**Includes other commercial/industrial customers as well as customers that have on-site electric generation

***Sum of non-coincident peaks

Aliso serves 18 gas fired power plants, representing ~9,800 MW capacity.

Electric Generation Station	
1	LADWP Haynes Generation Station
2	LADWP Scattergood Generation Station
3	LADWP Valley Generation Station
4	LADWP Harbor
5	SCE Alamosa Toll
6	SCE Huntington Beach Generating Station
7	SCE Redondo Beach
8	SCE Barre Peaker
9	SCE Center Peaker
10	El Segundo Energy Center, LLC
11	El Segundo Power, LLC
12	Long Beach Generation, LLC
13	City of Glendale
14	City of Burbank
15	City of Pasadena
16	City of Anaheim - Canyon Power
17	City of Vernon - Malburg
18	Southern California Public Power Authority – Magnolia

Storage reduced to 15 Bcf; Contingency planning underway

- CPUC order directed SoCalGas to reduce stored gas to 15 Bcf; no new injections
- 15 Bcf preserves ability to serve core customers this winter and reduces risks to electric reliability this summer

Must use the 15 Bcf Prudently

- The immediate need is to protect core for rest of winter.
- Upcoming, need to use remaining storage to help preserve electric generation for remainder of winter and into summer.
- Summer reliability is unclear given uncertainty about weather and how much of the 15 bcf might be consumed by summer.
- Without new injections, Winter 2016-2017 reliability is unclear.

Preliminary Steps to Help This Summer

- Created: Joint Agency Coordination Committee with Heads of CEC, CAISO, and CPUC
- CPUC, CEC and CAISO will identify actions to reduce gas and electric reliability risk.
- CEC heading coordination between CAISO and LADWP.
- CPUC analyzing solutions to reduce gas demand in the basin (efficiency, demand response, fuel switching) and exploring rule changes that ensure maximum pipeline deliveries.
- Assessment of changes to operation of gas-fired power plants in LA Basin is underway.