

## DOCKETED

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**Aliso Canyon Winter Risk Assessment Technical Report  
2017-18 Supplement:**

**January Situational Update**

**Prepared by the Staff of the California Public Utilities Commission, the California Energy Commission, the California Independent System Operator, and the Los Angeles Department of Water and Power**

**January 9, 2017**

# Aliso Canyon Winter Risk Assessment Technical Report 2017-18 Supplement

## January Situational Update

As promised in the December update (posted December 15), this January Situational Update presents revised gas balance analyses updated for weather conditions experienced in December 2017. It thereby implements the mitigation measure suggested in the November 28, 2017 Supplement to “Monitor and Communicate Constantly, Including to Public.”

With November’s warm temperatures continuing throughout December, SoCalGas continued to be able to serve a large portion of demand using receipts of pipeline gas instead of relying on gas from underground storage. In fact, SoCalGas pulled only 5.1 Billion Cubic Feet (Bcf) from storage on a net basis for the month; this resulted in a January 1 reported inventory for all four SoCalGas fields of 63.8 Bcf.

Table 1 presents an updated gas balance that reflects the actual January 1 storage inventory. It also assumes normal temperatures for the rest of winter and indeed, through the calendar year. This results in a projected January month-end storage inventory of 55 Bcf. This is 14 Bcf higher than the 41 Bcf for January month-end shown in the November 28 Technical Assessment. Table 2 presents the cold temperature case. After reflecting the updated January 1 storage inventory it now projects an inventory of 45 Bcf at the end of January and 30 Bcf at the end of February. These projections include delivery of 270 mmcf per day via Line 4000 at North Needles, which returned to service on December 22.<sup>1</sup> There is no change to Table 3 and it is therefore not included in this update.

The warm conditions experienced in November and December have significantly contributed to SoCalGas avoiding the need to withdraw the quantities of gas it would in a normal (or cold) temperature winter. Assuming no additional gas system or electric transmission system outages and that full supplies arrive at the pipeline receipt points, the concern that SoCalGas would need to curtail natural gas service in December is now moot and the risk of gas service curtailments in January appears to be significantly reduced. This is true despite the extreme cold weather experienced over the last two weeks in the eastern U.S. That weather did cause some well freeze-offs in the Permian basin of West Texas (and close additional monitoring by staff) but posed no significant impact to California.

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<sup>1</sup> See [https://scgenvoy.sempra.com/ebb/attachments/1513974412247\\_L4000\\_Maintenance\\_Update.pdf](https://scgenvoy.sempra.com/ebb/attachments/1513974412247_L4000_Maintenance_Update.pdf)

Table 1: Normal (Average Temperature) Winter Gas Balance by Month With Gas System Mitigation

SoCalGas Monthly Gas Balance NORMAL WEATHE		2018											
<b>CGR Demand (MMcfd)</b>		<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
Core		1,428	1,386	1,148	1,004	751	692	630	608	628	714	1,072	1,483
Noncore including EG		1,158	1,140	1,033	1,049	1,063	1,089	1,362	1,408	1,526	1,270	1,100	1,136
Wholesale & International		505	510	419	401	358	377	374	374	392	391	422	521
Co. Use and LUAF		39	38	33	31	27	27	30	30	32	30	33	40
Subtotal Demand		3,130	3,074	2,633	2,485	2,199	2,185	2,396	2,420	2,578	2,405	2,627	3,180
Storage Injection (Other Three Fields)		0	0	0	100	180	160	140	96	0	0	0	0
Storage Injection (Aliso)		0	0	0	13	0	0	0	0	0	0	0	0
Storage Injection Total		0	0	0	113	180	160	140	96	0	0	0	0
<b>System Total Throughput</b>		3,130	3,074	2,633	2,598	2,379	2,345	2,536	2,516	2,578	2,405	2,627	3,180
<b>Supply (MMcfd)</b>													
California Line 85 Zone		60	60	60	60	60	60	60	60	60	60	60	60
Wheeler Ridge Zone		765	765	765	765	765	765	765	765	765	765	765	765
Blythe (Ehrenberg) into Southern Zone		1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
Otay Mesa into Southern Zone		200	200	0	0	0	0	0	0	0	0	0	0
Kramer Junction into Northern Zone		550	550	550	550	550	550	550	550	550	550	550	550
North Needles into Northern Zone		270	270	270	270	270	270	270	270	270	270	270	270
Topock into Northern Zone		0	0	0	0	0	0	0	0	0	0	540	540
Sub Total Pipeline Receipts		2,855	2,855	2,655	2,655	2,655	2,655	2,655	2,655	2,655	2,655	3,195	3,195
Storage Withdrawal (Other Three Fields)		290	230	0	0	0	0	0	0	0	0	280	220
Storage Withdrawal (Aliso)		0	0	0	0	0	0	0	0	0	0	0	225
<b>Total Supply</b>		3,145	3,085	2,655	2,655	2,655	2,655	2,655	2,655	2,655	2,655	3,475	3,640
<b>DELIVERABILITY BALANCE (MMcfd)</b>		15	11	22	57	276	310	119	139	77	250	848	460
<b>Reserve Margin</b>		0%	0%	1%	2%	12%	13%	5%	6%	3%	10%	32%	14%
<b>OTF Month-End Storage Inventory (Bcf)</b>	40.2	31	25	25	28	33	38	42	45	45	45	37	30
<b>Aliso Month-End Storage Inventory (Bcf)</b>	23.6	24	24	24	24	24	24	24	24	24	24	24	17
<b>Total Storage Inventory</b>	63.8	55	48	48	52	57	62	66	69	69	69	61	47

Table 2: Cold Winter Gas Balance by Month with Gas System Mitigation

SoCalGas Monthly Gas Balance Cold Yr WEATHER	2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>CGR Demand (MMcfd)</b>													
Core	1,627	1,566	1,281	1,100	787	712	637	610	633	742	1,183	1,696	
Noncore including EG	1,226	1,199	1,075	1,109	1,122	1,201	1,473	1,492	1,616	1,325	1,150	1,188	
Wholesale & International	558	557	459	435	389	388	384	382	398	399	453	577	
Co. Use and LUAF	43	42	35	33	29	29	31	31	33	31	35	44	
Subtotal Demand	3,454	3,364	2,850	2,677	2,327	2,330	2,525	2,515	2,680	2,497	2,821	3,505	
Storage Injection (Other Three Fields)	0	0	0	0	108	305	110	120	0	133	0	0	
Storage Injection (Aliso)	0	0	0	0	210	0	0	0	0	0	0	0	
Storage Injection Total	0	0	0	0	318	305	110	120	0	133	0	0	
<b>System Total Throughput</b>	3,454	3,364	2,850	2,677	2,645	2,635	2,635	2,635	2,680	2,630	2,821	3,505	
<b>Supply (MMcfd)</b>													
California Line 85 Zone	60	60	60	60	60	60	60	60	60	60	60	60	
Wheeler Ridge Zone	765	765	765	765	765	765	765	765	765	765	765	765	
Blythe (Ehrenberg) into Southern Zone	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	
Otay Mesa into Southern Zone	200	200	115										
Kramer Junction into Northern Zone	550	550	550	550	550	550	550	550	550	550	550	550	
North Needles into Northern Zone	270	270	270	270	270	270	270	270	270	270	270	270	
Topock into Northern Zone	0	0	0	0	0	0	0	0	0	0	540	540	
Sub Total Pipeline Receipts	2,855	2,855	2,770	2,655	2,655	2,655	2,655	2,655	2,655	2,655	3,195	3,195	
Storage Withdrawal (Other Three Fields)	500	340	90	25	0	0	0	0	25	0	86	500	
Storage Withdrawal (Aliso)	115	170	0	0	0	0	0	0	0	0	0	270	
<b>Total Supply</b>	3,470	3,365	2,860	2,680	2,655	2,655	2,655	2,655	2,680	2,655	3,281	3,965	
<b>DELIVERABILITY BALANCE (MMcfd)</b>	16	1	10	3	10	20	20	20	0	25	460	460	
<b>Reserve Margin</b>	0%	0%	0%	0%	0%	1%	1%	1%	0%	1%	16%	13%	
<b>OTF Month-End Storage Inventory (Bcf)</b>	40.2	25	15	12	12	15	24	28	31	31	35	32	21
<b>Aliso Month-End Storage Inventory (Bcf)</b>	23.6	20	15	15	15	22	22	22	22	22	22	22	13
<b>Total Storage Inventory</b>	63.8	45	30	28	27	37	46	49	53	52	56	54	34