

CATEGORY	MITIGATION MEASURE	Target Completion	Lead Agency	Action 1	Action 2	Action 3	Action 4	Action 5	Action 6	Action 7
Prudent Aliso Canyon Use	1. Make Available 15 Bcf Stored At Aliso Canyon to Prevent Summer Electricity Interruptions	Summer 2016	CPUC	<p><b>CPUC</b></p> <p>Completed 1/21/16 Directive to maintain working inventory of 15Bcf</p>	<p><b>SoCalGas</b></p> <p>Draft Outline of protocol for withdrawals from field. First meeting with CAISO, CEC, LADWP -- agreement on project plan. Initial discussions with SoCalGas 4/25/16; Second meeting held including SoCalGas. First working draft targeted for 5/20/16</p>	<p><b>CPUC</b></p> <p>Gain Consensus among Principals and external stakeholders. Final Draft for approval by Principals 5/13/16. Final disposition of plan and draft of order 5/20/16. Approval of order 5/27/16</p>	<p><b>CPUC</b></p> <p>Provide SoCalGas clear direction to use 15 Bcf to prevent summer electricity interruptions . Order from CPUC Exec Dir targeted for 6/3/16</p>			
	2. Efficiently Complete the Required Safety Review at Aliso Canyon to Allow Safe Use of the Field	TBD	DOGGR	<p><b>SoCalGas</b></p> <p>Developing a plan and schedule for the safety review should be the first step (Isolate wells into groups)</p>	<p><b>SoCalGas</b></p> <p>Estimate dates when individual groups will pass inspections</p>					
Tariff Changes	3. Implement Tighter Gas Balancing Rules	Summer 2016	CPUC	<p><b>SoCalGas</b></p> <p>Completed Filed application with CPUC (Proceeding A.15-06-020)</p>	<p><b>SoCalGas</b></p> <p>Completed Settlement in principal submitted 4/29/16.</p>	<p><b>CPUC</b></p> <p>Review and analysis of proposed Settlement (5/13/16).</p>	<p><b>CPUC</b></p> <p>Commission Vote on Settlement Proposed Decision</p>	<p><b>CPUC</b></p> <p>Disposition of Tariff Changes</p>		
	4. Modify Operational Flow Order Rule	Summer 2016	CPUC	<p>OFO changes are largely addressed in the planned changes to balancing. Determination of necessary changes not known until balancing changes are implemented 4/25/16. OFO/balancing approach due 4/29/16 as a proposed settlement on 5/2/16. SoCalGas to respond based on the settlement agreement regarding daily balancing issues.</p>						
	5. Call Operational Flow Orders Sooner in Gas Day	TBD	SoCalGas	<p>Standby measure as daily balancing may make it unnecessary.</p>						
	6. Provide Market Information to Generators Before Cycle 1 Gas Scheduling	Summer 2016	ISO	<p><b>CAISO</b></p> <p>Completed New information in "beta status" being tested with gas utilities</p>	<p><b>CAISO</b></p> <p>Completed Update reports per beta tests. Updated to include publishing of the RUC to all gas resources following the Day 2 process completion.</p>	<p><b>CAISO</b></p> <p>Completed Determine ISO tariff and BPM changes for implementation. Tariff language has been drafted with elements of measure 7.</p>	<p><b>CAISO</b></p> <p>Completed Submit Tariff and BPM changes. Drafts submitted to ISO BOG 5/4/16 and approved. Filed with FERC 5/9/16.</p>	<p><b>CAISO</b></p> <p>Requesting FERC Tariff approval by June. Two phases of technical implementation targeting early June and early July.</p>		

CATEGORY	MITIGATION MEASURE	Target Completion	Lead Agency	Action 1	Action 2	Action 3	Action 4	Action 5	Action 6	Action 7	
Operational Coordination	7. Consider ISO market changes that increase gas-electric coordination	Summer 2016	ISO	CAISO Completed Released issue paper and began expedited stakeholder initiative on 3/17/16.	CAISO Completed Conduct Stakeholder working group meeting on 4/6/16.	CAISO Completed Post Straw proposal on 4/19/16.	CAISO Completed Post draft final proposal and draft tariff language 4/25/16.	CAISO Completed Collect Stakeholder comments 4/27/16.	CAISO Completed Submit Tariff and BPM changes. Drafts submitted to ISO BOG 5/4/16 and approved. Filed with FERC 5/9/16.	CAISO Requesting FERC Tariff approval by June. Two phases of technical implementation targeting early June and early July.	
	8. Increase Electric and Gas Operational Coordination	Summer 2016	ISO/LADWP	CAISO Completed 3/2/16 held table top exercise with SoCalGas for operating procedures 4120 for gas transmission pipeline outages or de-rates.	CAISO Completed Develop report that reflects gas burn rates 2 days in advance of operating day. Currently being sent via email; working on mechanism to automate delivery of the data on daily basis.	CAISO Hold table top exercise with LADWP before summer for operating procedures for gas transmission pipeline outages or de-rates. Scheduled for 5/16/16	CAISO Completed Establish regular monitoring of SoCalGas' Envoy and PG&E's Pipe Ranger gas notification systems. Real-Time ISO shift supervisors and Operations directors are receiving automated notifications from Envoy and Pipe Ranger.	LADWP Automate process to provide SoCalGas day-ahead gas forecast for high load days and expand to 2 day-ahead forecast. Automation is in progress for 5/15/16 completion.	LADWP Hold table top exercise with SoCalGas for operating procedures for gas transmission pipeline outages or de-rates. Currently, outage coordination discussion is currently scheduled on 5/5/16, and the table top exercise with SoCalGas is expected to be held prior to 5/31/16.	LADWP Expand joint emergency training with CAISO and coordination during gas curtailment events. The joint emergency training session with CAISO and SCE that includes specific Aliso Canyon mitigation issues is currently scheduled to be completed on 5/26/16. The coordination will continue and expand as needed during gas curtailment events.	
	9. Establish More Specific Gas Allocation among Electric Generators In Advance of Curtailment	Summer 2016	ISO/ LADWP	SoCalGas Develop clear procedure with LADWP and CAISO for allocating gas curtailment in advance.							
	10. Determine if Any Gas Maintenance Tasks Can be Safely Deferred	TBD	CPUC	SoCalGas Completed SoCalGas filing with CPUC of comprehensive description of projects proposed for deferral, proposed new completion date, risk associated with deferral, and mitigation measures. 4/29/16	CPUC Safety and Enforcement Division review and report on proposed project deferrals. 6/3/16	CPUC Parties submit comments on proposed plan (6/24/16) and reply comments filed 7/15/16.	CPUC Review of non safety related scheduled maintenance to identify any additional deferral opportunities				

CATEGORY	MITIGATION MEASURE	Target Completion	Lead Agency	Action 1	Action 2	Action 3	Action 4	Action 5	Action 6	Action 7
LADWP Operational Flexibility	11. Curtail Physical Gas Hedging	Completed 3/3/16 Summer 2016	LADWP	LADWP Completed LADWP will not purchase physical hedges from this date forward. LADWP suspended physical hedging program on 3/3/16 for the summer of 2016.						
	12. Stop Economic Dispatch	Completed Feb 2016 Summer 2016	LADWP	LADWP Completed LADWP will halt economy dispatch sales of energy to other market participants from this date forward. Completed in February, 2016.						
	13. Curtail Block Energy and Capacity Sales	Completed Feb 2016 Summer 2016	LADWP	LADWP Completed LADWP will forego block energy and forward capacity sales from this date forward. Completed in February, 2016.						
	14. Ask customers to Reduce Natural Gas and Electricity Energy Consumption	Summer 2016 (electricity) Winter 2016 (gas)	CPUC/ISO/ LADWP	CPUC Completed 4/28/16 A12-08-007 phase 4 authorized \$5 mil for Flex Alerts, \$6 mil for SCG, as well as request a Task Force to manage the creation of an integrated plan. Guidelines for the monthly reports have been drafted and is awaiting management review. Advice Letter has been sent to the service list.	SoCalGas Establish task force w/LADWP, local utilities, gov, and state agencies for gas conservation messaging. On 4/26/2016, LADWP, SoCalGas, SCE, SDG&E, SCPPA, City of Burbank, City of Glendale, and City of Los Angeles met to plan a coordinated message around the Aliso Canyon situation. Next Advisory Group meeting is 5/11/16. Focus Groups planned for 5/10-11, and weekly calls will begin week of 5/17/16.	ISO Prepare for Flex Alert electricity conservation messaging over the summer. Flex Alert brand, website and contacts have been transferred to the ISO. ISO is integrating Flex Alert into its processes and will be ready for triggers by mid May.	SoCalGas Submit monthly reports			

CATEGORY	MITIGATION MEASURE	Target Completion	Lead Agency	Action 1	Action 2	Action 3	Action 4	Action 5	Action 6	Action 7
Reduce Natural Gas and Electricity Use	15. Expand Gas and Electric Efficiency Programs Targeted at Low Income Customers	Start Summer 2016 and continues beyond	CPUC	<p>CPUC</p> <p>Completed 4/21/16 Commission Vote on Decision D.16-04-040. Authorized intensified deployment of ESA Program measures in the impacted Aliso area utilizing unspent funds and suspended specific program rules in an effort to increase energy savings and reduce natural gas usage.</p>	<p>SoCalGas/SCE</p> <p>SCE/SoCalGas Report to CPUC Energy Division on Details of Impacted Area, Baseline Participation Rates 5/23/16</p>	<p>SoCalGas/SCE</p> <p>First delivery of monthly recurring memo account, tracking effort report to CPUC Energy Division 5/23/16</p>	<p>CPUC/SoCalGas/SCE</p> <p>Potential ED/SCE/SoCalGas Progress Report meeting 9/23/16</p>	<p>CPUC</p> <p>Development of EM&amp;V plan to determine savings impact of intervention effort (TBD on larger decision) (A.14-11-007)</p>		
	16. Expand Demand Response Programs that Target Air Conditioning and Large Commercial Use	Start Summer 2016 and continues beyond	CPUC	<p>CPUC</p> <p>Proposed Decision 5/4/16: SCE Aliso Canyon DR strategies incorporated into 2017 Bridge Funding Decision</p> <p>R13-09-011 for SCE responses to ACR</p>	<p>CPUC</p> <p>Commission Vote 6/9/16</p>	<p>CPUC</p> <p>Advice Letter - Filed (TBD) - Approved (TBD)</p>	<p>SoCalGas</p> <p>SCG to update EE PIPs to include rebates for smart thermostats (mid-May) SCG rebate is an EE rebate in response to staff requests for early action on Aliso Canyon utilizing AB 793</p>			
	17. Reprioritize Existing Energy Efficiency Towards Projects with Potential to Impact Usage	Summer 2016	CPUC/ LADWP	<p>CPUC</p> <p>Completed 4/29/16 Receive list of custom projects from SCE and SCG that could be accelerated in the affected area on line by summer or end of year.</p> <p>Staff is waiting for responses from SCE and SCG on the custom projects they believe can reduce demand in the affected areas.</p>	<p>SoCalGas/SCE</p> <p>SCE and SCG finalize agreements with customers to accelerate projects</p>	<p>CPUC</p> <p>Completed 4/29/16 Receive list of deemed programs from SCE and SCG that may help reduce demand in the affected area</p>	<p>CPUC</p> <p>As appropriate, approve either incentive kickers or additional funds to expand deemed program access</p>	<p>LADWP</p> <p>Add components to existing conservation prgms by summer.</p> <ol style="list-style-type: none"> <li>1. Commercial Direct Install - Launched 4/18/16.</li> <li>2. Behavioral EE - Launch by 7/1/16.</li> <li>3. Residential LED lighting program - Launch by 7/1/16.</li> <li>4. AC Tune up - Launch by 7/1/16.</li> <li>5. Upstream Commercial HVAC - Launch by 7/1/16.</li> <li>6. Demand Response (DR) program: accelerating to enroll into 2016 DR program prior to the summer of 2016.</li> </ol>	<p>LADWP</p> <p>Complete MOU with LAUSD to implement energy savings measures. The LAUSD MOU was executed in October, 2015 and formally kicked off on 4/6/16. Activities are now proceeding to assess schools for LADWP-provided retrofits of lighting systems and controls.</p>	

CATEGORY	MITIGATION MEASURE	Target Completion	Lead Agency	Action 1	Action 2	Action 3	Action 4	Action 5	Action 6	Action 7
	18. Reprioritize Solar Thermal Program Spending to Fund Projects for Summer and by end of 2017	Summer 2016 Winter 2017	CPUC/ LADWP	<p><b>CPUC</b></p> <p>Complete 2/26/16 Advice Letter Filed for funding transfer from general market program to low-income program</p>	<p><b>CPUC</b></p> <p>Complete Advice Letter Approved funding transfer from general market program to low-income program</p>	<p><b>CPUC</b></p> <p>Complete 4/15/16 Advice Letter Filed for incentive design modifications to SoCalGas' CSI Thermal program</p>	<p><b>CPUC</b></p> <p>Advice Letter Approved for incentive design modifications to SoCalGas' CSI Thermal program  <i>CalSEIA protested. Under review</i></p>	<p><b>LADWP</b></p> <p>Take steps to reduce approval times for solar system installations. The Customer Net Metered (CNM)LADWP Solar Interconnection process was streamlined in December 2015. The new on-line interconnection process, permit coordination improvements, and technical field requirement simplifications resulted in meter installation response times. LADWP continues to improve the process thorough work management efficiencies resulted in</p>		
	19. Storage	Summer 2016	CPUC	<p><b>CPUC</b></p> <p>Complete 4/29/16 Gather data on SGIP storage projects in SoCalGas and SCE's W. LA and LA Basin area</p>	<p><b>SCE/SoCalGas</b></p> <p>SoCalGas has 13 relevant energy storage projects, but due to various factors, there are two storage projects totaling 20kW which could help alleviate needs caused by Aliso Canyon. SCE data forthcoming.</p>	<p><b>CPUC</b></p> <p>Integrate and analyze SCE and SoCalGas information and identify target projects 5/13/16.</p>				