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January 19, 2016

TO: Each Supervisor

FROM: Cynthia A. Harding, M.P.H. *Cynthia A. Harding*  
Daryl L. Osby *DLO*

SUBJECT: **ALISO CANYON STORAGE FACILITY GAS LEAK UPDATE**

At the January 12, 2016 meeting of the Board of Supervisors, the Department of Public Health and the Fire Department provided an update on the natural gas leak at the Aliso Canyon Storage Facility. In follow-up, both departments have prepared additional information, contained in Attachments 1 and 2, detailing ongoing efforts to provide for the health and safety of nearby Porter Ranch residents.

The Department of Public Health (DPH) and the Fire Department continue to work closely together to ensure a coordinated and unified County response to the natural gas leak. Going forward, both departments will provide a weekly written update containing the most recent air monitoring results, as well as other health and safety information on the status of the natural gas leak, along with any other updates as necessary to keep your Board fully informed.

If you have any questions or need additional information, please let us know.

CAH  
DLO

Attachments

c: Chief Executive Officer  
County Counsel  
Executive Officer, Board of Supervisors

**LOS ANGELES COUNTY – DEPARTMENT OF PUBLIC HEALTH  
JANUARY 19, 2016  
UPDATE ON THE ALISO CANYON STORAGE FACILITY GAS LEAK, CHEMICAL  
EXPOSURES, AND HEALTH IMPACTS IN THE PORTER RANCH COMMUNITY**

### **Background and Purpose**

The natural gas leak at the Aliso Canyon Storage Facility began on October 23, 2015. The Department of Public Health (DPH) was notified on October 28, 2015 and on November 19, 2015 it released a preliminary assessment of the situation (attached). Although the air monitoring data was very limited at the time, DPH determined that odorous emissions from the gas leak were causing recurrent symptoms in some residents in the adjacent community of Porter Ranch. As a result, DPH directed the Southern California Gas Company (SCG) to expedite its efforts to stop the leak, and in the interim, to offer temporary housing relocation to affected residents.

Since that time, DPH has acted to address community health concerns, expedite temporary relocations, and to develop a comprehensive and collaborative Expanded Air Monitoring Plan, in consultation with local and state regulatory agencies, the Los Angeles Unified School District, and SCG.

Efforts to characterize and stop the leak are ongoing, and DPH is working to ensure the collection of adequate environmental data, to assess potential health impacts, and to assist in the relocation of residents based on their individual health needs. This report summarizes DPH's response to the gas leak and provides an update on: 1) DPH's interpretation of air monitoring results to date; 2) the Expanded Air Monitoring Plan; and 3) an assessment of health monitoring and temporary relocation efforts in the community.

### **Air Monitoring Results**

DPH began reviewing the air monitoring data provided by the SCG and South Coast Air Quality Monitoring District (AQMD) on October 28, 2015. Since that time, SCG has collected each day an average of 10 instantaneous samples throughout the Porter Ranch neighborhood. Each instantaneous sample collected air for a 10-minute period, and samples were analyzed for methane, sulfur compounds (including mercaptans), and volatile organic compounds (VOCs), including benzene. To date, over 1000 instantaneous air collection samples have been analyzed. Air concentrations for methane and benzene are summarized below.

Chemical	Range	Warning	Recommended
<b>Methane</b>	1.2 – 616 ppm	10.5 ppm	50,000 ppm
<b>Benzene</b>	0.08 - 5.6 ppb	0.5 ppb	1 ppb (chronic) 8 ppb (acute)

*\*Methane: lower explosive limit; Benzene: reference exposure levels established by the California Office of Environmental Health Hazard Assessment for acute and chronic exposures*

In addition to the instantaneous samples, AQMD has collected a total of six 24-hour time integrated samples at the Porter Ranch Community School between December 21 and January 4. More samples with 12- or 24-hour collection times are needed to better understand potential residential exposures, which is addressed in the Expanded Monitoring Plan described below. Nevertheless, the available limited data do suggest the following findings.

### ***Methane***

Methane air concentrations have remained well-below the lower explosive limit in the community.

### ***Sulfur Compounds***

The two sulfur odorant additives to natural gas, tert-butyl mercaptan and tetrahydrothiophene, have also been regularly monitored in the community and at the facility. To date, these sulfur-based compounds have been undetectable by laboratory instruments. However, the human nose can detect these substances at very low levels – far below those which are detectable by laboratory tests. DPH is incorporating all resulting data, along with daily reports of symptoms experienced in the community, in its continuing evaluation of potential short-term health impacts from exposure to mercaptan odors. At this time, individuals affected by sulfur odors are experiencing a range of health issues, including gastrointestinal, neurological, and respiratory symptoms. These short-term, but recurrent symptoms would be expected to continue in these individuals as long as the odors persist. Long-term health effects from these sulfur odors are not expected to occur.

### ***Oily Mist***

Since the beginning of December, 2015, Porter Ranch residents have been reporting periodic brown spots on outdoor surfaces, including patio furniture, pool decks, and cars. From December 9-17, SCG collected six wipe samples from cars within the Porter Ranch community and analyzed them for petroleum hydrocarbons and benzene, toluene, ethylbenzene and xylenes (BTEX). The sample results indicate the presence of heavier-end petroleum hydrocarbons consistent with crude oil (carbon chains 21 through 28). BTEX was not detected in any of the samples. SCG reported these drops are likely resulting from an oily mist emanating from the leaking well during strong wind events. To further investigate the occurrence of the oily mist, SCG has placed horizontal and vertical plexi-glass plates along the facility fence-line, immediately adjacent to the community. The highest concentration of spots was found north of the Highlands neighborhood, and SCG has since installed screens over the leaking well, which are designed to capture any new oily mists that may occur. Between January 2 and 10, no further accumulation of spots on the plexi-glass plates occurred, and DPH has not received additional reports of new spots in the community. DPH advises that the presence of these spots poses minimal health risk, but residents should avoid touching these spots, as they may cause skin irritation, and they should avoid eating garden-grown fruits and vegetables with visible spots. In the meantime, SCG is offering free cleaning services to residents for these spots. DPH will continue to review testing results and report findings to the public.

### ***Benzene***

Benzene is a chemical that can cause short-term and long-term health effects, based on exposure levels and the duration of those exposures. For acute exposures, California Office of Environmental Health Hazard Assessment (OEHHA) has established a benzene acute threshold of

8 parts per billion (ppb) for a one-hour period of exposure. A person who continuously breathes air with a benzene level greater than 8 ppb for at least an hour may be at risk for acute health effects, including drowsiness, rapid or irregular heartbeat, headaches, tremors, confusion, unconsciousness, or even death at very high levels. Out of the >1,000 10-minute samples for benzene, none of these samples has exceeded the threshold for acute short-term exposure, with the highest-recorded level in the community sampling at 5.6 ppb.

Benzene is a known human carcinogen, and may lead to blood and bone marrow cancers, particularly leukemia, with long-term, chronic exposure. OEHHA has established a benzene chronic exposure threshold of 1 ppb for long-term or chronic exposure. A person who continuously breathes air with a benzene concentration greater than 1 ppb for an extended period of time (i.e. months to years) may be at an elevated risk for cancer. Higher continuous air concentrations of benzene tend to reduce the amount of time necessary to elevate this cancer risk. Out of the over 1,000 samples for benzene, 15 samples have exceeded the threshold for chronic exposure (up to 5.6 ppb). However, it must be understood that these samples themselves represent only 10-minute air collections, and do not represent an average concentration of daily exposure to residents.

Although benzene sampling has been limited to date, the average concentration of all benzene air measurements in the Porter Ranch community has been 0.5 ppb, and this average is a more appropriate representation of chronic, long-term exposure in the community than any single 10-minute reading. This average is below the OEHHA chronic exposure threshold, and is also consistent with ambient levels of benzene in Los Angeles County outdoor air. According to AQMD, outdoor benzene air concentration across the Los Angeles Air Basin ranges from 0.02 - 1.77 ppb, with an average of 0.28 - 0.52 ppb.

Given the uncertainty of physical conditions at the site, the current lack of testing results that truly reflect average long-term exposures, and the nature of benzene as a known human carcinogen, DPH deemed it necessary to implement a more comprehensive monitoring plan to provide additional data. The plan will examine other chemicals of concern, including toluene, ethylbenzene, and xylene, and other trace chemicals such as polycyclic aromatic hydrocarbons and metals. This plan is now being implemented as outlined below under "Expanded Air Monitoring Plan."

Efforts by the gas company to mitigate the leak have included a reduction of pressure within the damaged well, and the excavation of a relief well to repair the leak several thousand feet below the surface. Based on air monitoring to date, concentrations of natural gas constituents have declined somewhat over time. However, the conditions at the site are unpredictable and evolving. DPH has determined that the sulfur odorants from the facility continue to cause recurrent health effects in some individuals. OEHHA recently reported, "Any increase in cancer risk to people in the area due to benzene emissions from the natural gas leak is likely very small. Nearly all measured benzene concentrations in the Porter Ranch community during the leak are similar to background levels generally found in the Los Angeles area, including at the nearest long-term monitoring station in Burbank." Nevertheless, DPH believes that more extensive monitoring is needed in order to fully evaluate this risk.

### **Expanded Air Monitoring Plan**

Given the failure of the gas company to quickly stop the leak, on November 25, 2015 DPH reported to your Board the need to expand air monitoring for other chemicals in the gas mixture that may pose a long-term risk to health. Additionally, previous monitoring efforts lacked long-term monitoring (e.g. 12- or 24-hour periods of sample collection) and utilized inadequate laboratory reporting limits. On December 9, 2015, DPH convened an air quality agency workgroup consisting of South Coast Air Quality Management District (AQMD), Los Angeles County Fire Department, California Office of Environmental Health Hazard Assessment (OEHHA), the California Air Resources Board (CARB), and the Los Angeles Unified School District (LAUSD) to develop a more effective air monitoring plan. To more comprehensively assess potential health impacts, DPH identified the following necessary additions to the air monitoring plan: 1) 12-hour time integrated sampling at the facility and in the community, 2) additional chemical tests, including a full list of volatile organic compounds, semi-volatile organic compounds, polycyclic aromatic hydrocarbons, and metals, 3) improved efforts to align sampling locations with odor complaint areas, 4) stricter laboratory reporting limits and 5) outdoor air radon sampling at the SS-25 site.

Through revision of the air monitoring plan, DPH also requested improvements to the data reporting protocols. As a result, the SCG provides daily laboratory report updates to the agencies and weekly electronic data deliveries.

In accordance with the revised air monitoring plan, on January 12, 2016, 12-hour time integrated sampling was implemented along the facility fence-line, where the facility boundary meets the community. Stricter reporting limits were successfully obtained from the laboratory (January 1, 2016) and 3 additional 10-minute community sample locations were added (January 12, 2016). DPH is continuing to push for the timely implementation of other components of the Expanded Monitoring Plan. These components include 1) testing for additional chemicals such as volatile organic compounds, metal, and polycyclic aromatic hydrocarbons (by January 22, 2016); 2) ambient air sampling at one non-impacted facility location and one non-impacted community location (by January 18, 2016); 3) three additional 12-hour time integrated sampling sites to be implemented within the Porter Ranch community (by January 29, 2016); and outdoor air testing for radon near the leaking well SS-25 (by January 29, 2016). As this incident continues to evolve, the Expanded Monitoring Plan allows for adjustments to sampling frequency and locations in response to changing environmental conditions and request from the agencies and the community.

Through discussions with the air quality agency workgroup, DPH supported a sampling effort implemented by LA County Health HAZMAT to collect an air sample at the SS-25 gas leak site. Source sample data would assist DPH to better understand potential chemicals of concern for this incident. The sample collected by LA County HAZMAT was analyzed by AQMD, and DPH has requested the results to guide further investigation of health concerns. Given the possible length of exposure to known carcinogens and other chemicals, DPH is working with AQMD to ensure we receive air monitoring data as it is generated.

With the implementation of the Expanded Air Monitoring Plan, DPH will continually post laboratory results on its website, along with our interpretations of these results as they are

generated. The website updates will be made at least weekly starting January 22, 2016. The results and analysis can be accessed at <http://publichealth.lacounty.gov/eh/>

### **Relocation Directives, Health Information, and Symptom Reporting**

On November 19, 2015, DPH directed the gas company to provide temporary relocation for area residents affected by the gas leak. Since that time, DPH has worked closely with the community, and local and state agencies to ensure compliance with the directive. DPH's efforts have included communicating with area residents at community meetings and via telephone and e-mail. Over 450 households have registered health complaints with DPH to date. DPH has made additional efforts to work with community members who have specific medical needs, or whose needs were not initially met by the SCG relocation contractor. In these cases, DPH staff has followed up with the SCG to ensure that sensitive individuals are prioritized for health relocation, and that relocation is made available to all residents who have been affected. In many cases, DPH needed to advocate for certain community members to receive temporary relocation services from SCG. For example, SCG initially denied relocation services to residents outside of the Porter Ranch 91326 zip code. As such, DPH has directed SCG to expand its initial relocation plan to include a broader area of affected residents beyond the 91326 zip code to a 5-mile radius. Further, DPH staff has confirmed health effects on a small number of households outside the 5-mile radius and successfully advocated for their relocation by the gas company, as well.

Regarding the two LAUSD schools in the Porter Ranch Community, and following a surge in health complaints from students and staff, DPH directed SCG to provide assistance to LAUSD to temporarily relocate students and staff affected by the gas leak odors. DPH is conferring with other nearby schools to ensure they are afforded the same opportunity for temporary relocation. Transportation to and from relocated schools and temporary housing continues to be a logistical challenge for households affected by the gas leak incident. DPH is monitoring SCG's efforts to ensure that they provide appropriate accommodations for all residents

All area residents who request temporary relocation or air purification devices from SCG have been advised to report their health symptoms to DPH by phone or e-mail. DPH has already logged health symptoms and complaints from over 450 households. In addition to tracking symptoms, DPH provides health information and education to area residents, health care providers, and other interested parties. Staff from DPH have participated in community meetings in which health information was provided to hundreds of area residents. DPH staff have also provided health information to local media outlets to educate the public about health concerns related to the gas leak.

A more complete picture of the health risks in this community will be available following acquisition of additional expanded air monitoring data as outlined above. DPH will push for rapid implementation of all components of the Expanded Air Monitoring Plan, and based on the emerging data, will continually assess health risks. DPH is committed to ensuring that the health of the community is at the forefront of all regulatory decision-making.

The two following tables provide examples of the type of data that will be posted on a regular basis.

**Community Air Monitoring Data Summary**

Chemical	Weekly Summary					
	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
<b>Methane and Other Hydrocarbons</b>						
Methane						
Ethane						
Propoane						
Ethane						
Butane						
Pentane						
Hexane						
C6+						
Total Gaseous Nonmethane Organics						
<b>BTEX</b>						
Benzene						
Toluene						
Ethylbenzene						
m&p-Xylenes						
<b>Sulfur Odorants</b>						
Mercaptan, Ethyl						
Mercaptan, Methyl						
Mercaptan, t-Butyl						
Tetrahydrothiophene						
<b>Other Sulfur Compounds</b>						
Carbon Disulfide						
Carbonyl Sulfide						
Hydrogen Sulfide						
Sulfur, total reduced						
<b>VOCs</b>						
<b>SVOCs</b>						
<b>Metals</b>						
<b>PAHs</b>						

24-Jan	Cumulative Summary to Date			
	No. Detects / Total Samples	% Detection	Min - Max	Average





COUNTY OF LOS ANGELES DEPARTMENT PUBLIC HEALTH  
BUREAU OF HEALTH PROTECTION  
5050 Commerce Drive, Baldwin Park, CA 91706  
Phone: (626) 430-5100  
Website: [www.publichealth.lacounty.gov/eh](http://www.publichealth.lacounty.gov/eh)



**PRELIMINARY ENVIRONMENTAL HEALTH ASSESSMENT**  
**Natural Gas Leak from Aliso Canyon Storage Field, Southern California Gas Company**

**11-19-15**

*Note: On October 28, 2015, Los Angeles County Department of Public Health (DPH) was asked by the Office of Emergency Management to assess whether conditions at the subject site could be adversely affecting the health of nearby residents. Based on review of available environmental and health data, DPH has prepared this Preliminary Environmental Health Assessment.*

**Background:** On October 23, 2015, a natural gas leak was discovered by Southern California Gas Company (SoCal Gas) at the Aliso Canyon Storage Field. The Los Angeles County Department of Public Health (LADPH) was notified on 10.28.2015. Odors have been affecting residents in the Porter Ranch area. LADPH attended a community meeting hosted by SoCal Gas. LA County Fire Department was also in attendance. The community meeting focused on exposure to methane gas, and mercaptans which are odorants added to natural gas. LADPH advised that methane gas itself poses little direct health threat upon inhalation in an outdoor space. Mercaptans, however, do pose a health threat to the community, including short-term neurological, gastrointestinal, and respiratory symptoms that may result from inhalation.

**Problem Identification:** Daily complaints are being received by LADPH from neighboring Porter Ranch residents regarding strong odors from the Aliso Canyon site. Over 200 odor complaints have also been logged by the South Coast Air Quality Management District. Common health complaints include nausea, dizziness, vomiting, shortness of breath, and headaches. Complaints are associated with the detection of sulfur-type odors. These health complaints are consistent with inhalational exposure to mercaptans. It should be understood that odors alone can be directly responsible for health effects, and that these health effects currently reported by area residents are consistent with exposure to mercaptans at the odor threshold. Correspondence from SoCal Gas on 11.18.15 indicates that the process to cap and repair this leak may take several months.

**Potential Other Sources of Exposure:** None.

**Potentially Affected Population:** The site is adjacent to residential properties in the Porter Ranch neighborhood. These exposures do not constitute an immediate danger to life, and permanent or long-term health effects are not expected. Daily, short-term symptoms are expected to continue, as long as the odors remain.

**Assessment:** SoCal Gas has been addressing the problem from a technological standpoint since its inception. SoCal Gas has indicated that the problem is very complex, and requires a complex solution.

SoCal Gas is not able to provide a timeline for the amelioration of odors in the residential areas. Odors are causing significant symptoms in some area residents. These symptoms are expected to persist as long as the odors persist. Solutions to protect the public's health include eliminating the odorous emissions, or offering temporary relocation assistance to affected persons in the area.

**Recommendations:**

- (1) SoCal Gas should continue the abatement process to repair the leak. Odor elimination and public protection should be the highest priorities in the development of all mitigation plans.
- (2) LADPH will issue a directive to SoCal Gas to continue the abatement of odorous emissions in the area on an expedited basis, and, in the interim, to offer free, temporary relocation to any area residents affected by odors from the Aliso Canyon site.
- (3) The regulatory agencies should continue to explore appropriate interventions to expedite the characterization and repair the leak.

*Cyrus Rangan MD FAAP ACHES*

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Dr. Cyrus Rangan, M.D., F.A.A.P., F.A.C.M.T.  
Director, Bureau of Toxicology and Environmental Assessment

*Angelo J. Bellomo*

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Angelo J. Bellomo, REHS, QEP  
Deputy Director for Health Protection



# COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE  
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY  
FIRE CHIEF  
FORESTER & FIRE WARDEN

January 19, 2016

TO: EACH SUPERVISOR

FROM: DARYL L. OSBY, FIRE CHIEF *DLO*

## ALISO CANYON NATURAL GAS RELEASE – FIRE DEPARTMENT OVERSIGHT

The Fire Department continues to participate in the unified effort to cap the natural gas leak at Southern California Gas Company's Aliso Canyon facility. The Department continues to provide daily oversight, expertise regarding safety, and assistance with development and publication of the weekly Incident Action Plan for the SS-25 Incident. Once the gas leak is mitigated, the Department will seek full cost recovery for services we provided throughout the duration of the incident.

If an emergency situation develops at the site, the Department, along with the Los Angeles Fire Department and the Los Angeles Police Department, will immediately move into unified command until the emergency situation is mitigated. The Department continues to actively attend and participate in all meetings we are aware of. The methane capture and processing system that the Gas Company proposed was, in part, eliminated due to Fire Department concerns about unnecessary safety risks. I will provide you with additional information this week regarding this topic.

If you have any questions, please contact me at (323) 881-6180.

Attachment  
DLO:mt

c: Sachi Hamai  
Shelia Williams  
Jim Jones  
Ben Polk  
Derric Johnson  
Maria Chong-Castillo  
Rick Velasquez  
Sussy Nemer  
Maria Duron

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF:

AGOURA HILLS  
ARTESIA  
AZUSA  
BALDWIN PARK  
BELL  
BELL GARDENS  
BELLFLOWER  
BRADBURY

CALABASAS  
CARSON  
CERRITOS  
CLAREMONT  
COMMERCE  
COVINA  
CUDAHY

DIAMOND BAR  
DUARTE  
EL MONTE  
GARDENA  
GLENORA  
HAWAIIAN GARDENS  
HAWTHORNE

HIDDEN HILLS  
HUNTINGTON PARK  
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INGLEWOOD  
IRVINDALE  
LA CANADA FLINTRIDGE  
LA HABRA

LA MIRADA  
LA PUENTE  
LAKEWOOD  
LANCASTER  
LAWNDALE  
LOMITA  
LYNWOOD

MALIBU  
MAYWOOD  
NORWALK  
PALMDALE  
PALOS VERDES ESTATES  
PARAMOUNT  
PICO RIVERA

POMONA  
RANCHO PALOS VERDES  
ROLLING HILLS  
ROLLING HILLS ESTATES  
ROSEMEAD  
SAN DIMAS  
SANTA CLARITA

SIGNAL HILL  
SOUTH EL MONTE  
SOUTH GATE  
TEMPLE CITY  
WALNUT  
WEST HOLLYWOOD  
WESTLAKE VILLAGE  
WHITTIER

**SS-25 INCIDENT**  
**7 DAY**  
**INCIDENT ACTION PLAN**

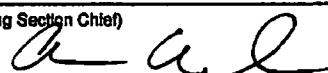
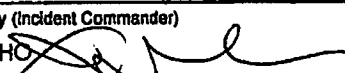
**WEDNESDAY JANUARY 13, THROUGH**  
**TUESDAY JANUARY 19, 2016**

**0600 – 0600**



**SoCalGas**

A  Sempra Energy utility

<b>INCIDENT OBJECTIVES</b>	Incident Name <b>SS-25 INCIDENT</b>	Date <b>01/12/16</b>	Time <b>1800</b>		
Operational Period <b>01/13/2016 – 01/19/2016 0600 – 0600</b>					
General Control Objectives for the Incident (include alternatives)					
<b>MANAGEMENT OBJECTIVES:</b>					
<ul style="list-style-type: none"> <li>▪ Provide for safety and security of the public, on-site employees, contractors, and first responders.</li> <li>▪ Limit effects of the natural gas release to the community and the environment.</li> <li>▪ Establish and maintain positive relationships with the public, regulatory and the cooperating agencies.</li> <li>▪ Provide incident information to the public, stakeholders and the media.</li> <li>▪ Comply with Governor Brown's Proclamation of State of Emergency (Stopping the Leak, Protecting Public Health and Safety, Ensuring Accountability, and Strengthening Oversight)</li> </ul>					
<b>CONTROL OBJECTIVES:</b>					
<ul style="list-style-type: none"> <li>▪ Stop the flow of gas from the well.</li> <li>▪ Contain and manage the release of any liquids from the well or operations.</li> <li>▪ Mitigate the effects to the environment.</li> </ul>					
<b>TRIGGER POINTS*:</b>					
<b>Upon discovery of any hazardous materials release, report to the Office of Emergency Services (OES), County of Los Angeles Fire Department and other stakeholders as deemed appropriate.</b>					
Well contents and natural gas emerge uncontrolled					
<ul style="list-style-type: none"> <li>▪ Confirm the release visually and by odor.</li> <li>▪ Identify cloud or aerosol.</li> <li>▪ Estimate size of the release and direction (if possible).</li> <li>▪ Define the direction of release.</li> <li>▪ Calculate time duration of release.</li> <li>▪ Determine the need to relocate incident facilities.</li> </ul>					
*Consider suspending operations while evaluating actions.					
Weather Forecast for Period					
General Safety Message					
• SEE ATTACHED SAFETY MESSAGE					
Attachments (mark if attached)					
X	Organization List	X	Communications Plan	X	Air Sampling Collection Site Map
X	Div. Assignment Lists	X	Medical Plan	X	Incident Maps
Prepared by (Planning Section Chief) ADAM UEHARA 		Approved by (Incident Commander) JIMMIE CHO 			

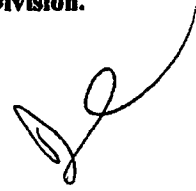
# SAFETY MESSAGE

<b><u>LCES</u></b> <b>Lookouts</b> <b>Communications</b> <b>Escape Routes</b> <b>Safety Zones</b>	<b>INCIDENT:</b>	<b>SS-25</b>
	<b>DATE:</b>	<b>01/13/2016 – 01/19/2016</b>
	<b>OPERATIONAL PERIOD:</b>	<b>0600-0600</b>

- All personnel have “stop the job” authority.
- All personnel stay upwind of well leak.
- Wear all appropriate PPEs including sun protection within and outside of operational area.
- All personnel shall maintain proper hydration.
- Pay attention to changes in weather, especially wind shifts.
- All personnel shall brief on spot, short-term, and long-term weather patterns.
- Maintain awareness of asphyxiation and ignition hazards of natural gas.
- Know & monitor appropriate radio frequencies, especially within the operational area.
- In the event of an emergency air transport, practice proper helicopter safety procedures.
- Observe safe driving practices on narrow access roads.
- Turn off cell phones, cameras and pagers within the operational area.
- Follow prescribed procedures in the event of any personnel injury, including making proper notifications.
- Follow standard decontamination procedures in the event of personnel contamination.
- Review and follow SDS hazards and mitigations for all hazardous materials used.
- Ensure all monitoring equipment is functioning properly and calibrated to manufacturers’ specifications.
- Group Supervisors to review exit and evacuation routes with assigned personnel.
- In the event of a “ stop the job” or other emergency situation do not resume work activity until the work location is declared “all clear”.

## Misting Event - Offsite Consequences


- Observe height of column.
- Determine trajectory of aerosolized mist.
- Evaluate wind speeds.
- Evaluate risk and/or impact to the community.
  - Determine type of notification for the community.
  - If restrictions in place, determine when appropriate to lift.
  - Request Los Angeles County Fire Department Health Hazardous Materials Division to provide oversight to review incident and evaluate impact to community.
- Determine need for additional resources.
  - Los Angeles County Fire Department - Health Hazardous Materials Division.
  - Los Angeles City Fire Department Hazardous Materials Task Forces.
  - Paramedics.
  - Environmental Clean-up (on-site environmental contractors).



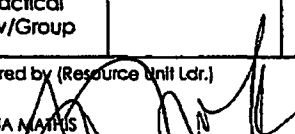

# **SS-25 WELL MANAGEMENT**

## **TRIGGER POINTS**

- If 30% of LEL for Methane is measured in the Operational Zone, the operation shall be suspended and reevaluated.
- If 50% LEL for Methane is measured, all personnel shall be evacuated off of the SS-25 Operational Zone.
- If a Fire occurs in the SS-25 Operational Zone, immediately notify incident Fire/EMS support services.
  - A report of conditions shall be communicated to the Incident Commander to evaluate the need for additional resources including off-site first responders, Los Angeles County and Los Angeles City Fire Department.
- Prior to the commencing of Pumping Operations, the weather, including single digit relative humidity and specifically, **Wind** shall be evaluated.
  - Consultation with the Los Angeles County Fire Department for the Fire Danger Weather Forecast.
- If a Northeast Wind greater than 20 mph is determined, lookouts shall be established to monitor any column, trajectory and/or duration of mist to ensure drop out prior to approaching the surrounding community.
  - If mist appears to approach community, lookouts are instructed to notify pumping operation to discontinue immediately and notify PIO.

<b>ORGANIZATION ASSIGNMENT LIST</b>		<b>Operations Section</b>	
1. Incident Name <b>SS-25 INCIDENT</b>		Chief	Bret Lane
		Deputy	Rodger Schwecke
2. Date 01/12/2016		<b>Well Management Branch</b>	
3. Time 1400		Branch Director	Bret Lane
4. Operational Period 01/13/16 - 01/19/16 0600-0600		Deputy	Rodger Schwecke
Position	Name	WELL MANAGEMENT SS 1	Unstaffed
<b>Incident Commander and Staff</b>		WELL MANAGEMENT SS-25	Richard Hatteberg
Incident Commander	Jimmie Cho	WELL MANAGEMENT PS-20	Todd Vandeputte
Deputy	Hal Snyder / Glenn LaFavers	WELL MANAGEMENT P 39A	Todd Vandeputte
Safety Officer	Barry Kerns / Isaac Ibay / Sonia Rodriguez	<b>Emergency Services Branch</b>	
Information Officer	Lisa Alexander	Branch Director	
Liaison Officer	Jeff Salazar / Greg Healy	Deputy	
First Responder Liaison Officer	Alicia Mathis / Belinda Funches	FIRE / RESCUE	Patrick William
		HEALTH AND SAFETY	
		SECURITY (DAY/NIGHT)	David Ignacio
<b>Agency Representative</b>		<b>Environmental Branch</b>	
Agency	Name	Branch Director	Jill Tracy
LACOFD	AC Greg Hisel	Deputy	Darrell Johnson
LAFD	AC Greg Reynar	DECONTAMINATION SS-5	Jill Tracy
LAPD	Captain Robert Marino	COMMUNITY AIR MONITORING & MITIGATION	John Clarke
CAL OES	AC Dave Stone	FACILITY LIQUID RELEASE RESPONSE & MITIGATION	Mushfiq Rahman
<b>Regulatory Agencies</b>		<b>Information Branch</b>	
LACOFD HHMD	Bill Jones/Terry Wilkinson	Branch Director	Lisa Alexander / Ron Vanderleeden
LA CO. PUBLIC HEALTH	Cyrus Rangan	Deputy	Stacey Long
LA CO. PUBLIC HEALTH	Michael Rogers	Public Information	Ann Ayers
AQMD	Mohsen Nazemi	Agency-Stakeholder Information	Tony Tartaglia
DOGGR	Scott Walker	Media Information	Ann Silva
CPUC	Randy Holter	<b>Evacuation Branch</b>	
CAL OSHA	Robert Salgado	Branch Director	LAFD / LAPD (ON DUTY PERSONNEL)
<b>SoCalGas Legal Support</b>		<b>Customer Assistance Branch</b>	
Legal Support Team	Marlin Howes / Kan Langan Al Garcia	Branch Director	Gillian Wright
<b>Planning Section</b>		Deputy	Sara Franke
Chief	Adam Uehara / Jackie Switzler	Relocation	Steve Hruby
Deputy		<b>Finance Section</b>	
Resources Unit	Alicia Mathis	Chief	Mike Calabrese
Situation Unit	Nadia Aftab	Deputy	
Documentation Unit		Procurement Unit	
Demobilization Unit		Prepared by (Planning Section Chief) ADAM UEHARA 	
<b>Logistics Section</b>			
Chief	Larry Andrews		
Deputy	Ramon Marquez / Chris Smith		
Communications Unit			
Medical Unit			

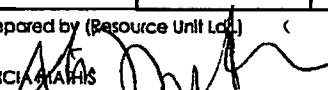
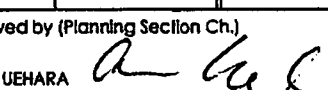


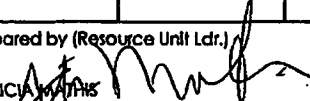

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>Well Management</b>		2. Division <b>Well Management – SS 1</b>		
3. Incident Name <b>SS-25 INCIDENT</b>			4. Operational Period Date: <b>01/13/16– 01/19/16</b> Time: <b>0600-0600</b>				
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>		Branch Director	<b>BRET LANE</b>			
Deputy Operations Chief	<b>RODGER SCHWECKE</b>		Division/Group Supervisor	<b>UNSTAFFED</b>			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
UNSTAFFED							
7. Control Operations							
<ul style="list-style-type: none"> <li>Pump trucks, mixing equipment and materials being demobilized from site.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>In the event of a spill, contain and control and make proper notifications.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			CH 1	Logistics/Safety			CH 2
Tactical Div/Group			CH 3				
Prepared by (Resource Unit Ldr.)		Approved by (Planning Section Ch.)		Date		Time	
ALICIA MATRIS 		ADAM UEHARA 		01/12/16		1500	



<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Well Management</b>		2. Division <b>Well Management – SS 25</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0800-0800</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>		Branch Director	<b>BRET LANE</b>			
Deputy Operations Chief	<b>RODGER SCHWECKE</b>		Division/Group Supervisor	<b>RICHARD HATTEBERG</b>			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Boots & Coats	Richard Hatteberg	12	No	0600	1800		
Onyx	Dean Leal	6	No	0600	1800		
Doby Hagar Trucking	Dylan Hagar	5	No	0600	1800		
BCI	Martha Bowers	5	No	0600	1800		
Hurst Welding	G. Volkmar	1	No	0600	1800		
T&T Crane	Shawn Paul	3	No	0600	1800		
Fluor	Paul Nih	5	No	0600	1800		
AE COM	Larry Head	9	No	0600	1800		
7. Control Operations							
SOCAL Gas shall comply with all of County of Los Angeles Fire Department Health Hazardous Materials Division notice of violation by:							
<ul style="list-style-type: none"> <li>• Taking all necessary measures to mitigate the leak.</li> <li>• Ensure that all employees and stakeholders have access to the Incident Action Plan (IAP).</li> <li>• Provide daily briefing to employees on all safety issues.</li> <li>• Upon achieving full containment, provide an investigative report as to the cause of the failure of the well.</li> <li>• Once site is cleaned and deemed safe, provide all documentation, records and manifests for hazardous waste.</li> </ul>							
In addition, SOCAL Gas will :							
<ul style="list-style-type: none"> <li>• Continue well monitoring by observing pressures of production tubing and casing if operationally feasible.</li> <li>• Test ambient air to ensure safe working environment.</li> <li>• Design and build gas capture system if determined to be safe.</li> <li>• Install filter screens over well site to capture any fluids carried by gas.</li> <li>• Add more sandbags to prevent runoff in the event of rain.</li> </ul>							
To date different methods are being attempted to control the gas leak at well SS25:							
<ul style="list-style-type: none"> <li>• Drilling relief well to intercept SS25. Drilling is being conducted 24/7.</li> <li>• Gas withdrawal at the facility to further reduce overall storage reservoir pressure and leak flow rate.</li> <li>• Permit pending on engineering solutions to capture gas escaping from SS25 surface area.</li> <li>• Put SS25 into production by attaching piping to system withdrawal if conditions are safe.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• Notify PIO, operations information relevant to the community.</li> <li>• If release occurs, ensure containment and mitigation. Reference Well Management Trigger Points in the Safety Plan.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			<b>CH 1</b>	<b>logistics/Safety</b>			<b>CH 2</b>
Tactical Div/Group			<b>CH 3</b>				
Prepared by (Resource Unit Ldr.) <b>ALICIA MATHIS</b>		Approved by (Planning Section Ch.) <b>ADAM UEHARA</b>		Date <b>01/12/16</b>		Time <b>1500</b>	

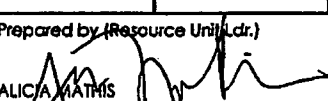
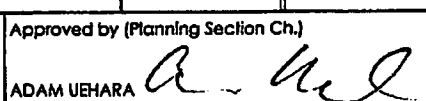


<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Well Management</b>		2. Division <b>Well Management – P 39-A (relief well)</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>		Branch Director	<b>BRET LANE</b>			
Deputy Operations Chief	<b>RODGER SCHWECKE</b>		Division/Group Supervisor	<b>TODD VANDEPUTTE</b>			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Ensign Resources	Terry VarGovich	6	No	0600	1800		
Halliburton	Allan Long	3	No	0600	1800		
Doby Hagar Trucking	Dylan Hagar	3	No	0600	1800		
Hurst Welding	Jerry Hurst	2	No	0600	1800		
Geo Drilling Fluids	Travis Adams	1	No	0600	1800		
Krummerich Engineering	Tracy Holt	1	No	0600	1800		
Petrolog	Jim Bean	1	No	0600	1800		
Co's	Armando Santana	10	No	0600	1800		
7. Control Operations							
<ul style="list-style-type: none"> <li>• Drilling continues.</li> <li>• <b>Drilling at approximately 7,530 feet as of January 12, 2016.</b></li> <li>• Additional traffic control provided at P-39-A.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• Communicate to the PIO operations information relevant to the community.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			<b>CH 1</b>	<b>Logistics/Safety</b>			<b>CH 2</b>
Tactical Div/Group			<b>CH 3</b>				
Prepared by (Resource Unit Ldr.) <b>ALICIA MATHIS</b>		Approved by (Planning Section Ch.) <b>ADAM UEHARA</b>		Date <b>01/12/16</b>		Time <b>1500</b>	

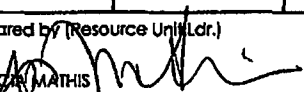
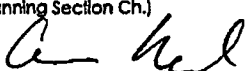
<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Emergency Services</b>		2. Group <b>Fire / Rescue</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>	Branch Director					
Deputy Operations Chief	<b>RODGER SCHWECKE</b>	Division/Group Supervisor		<b>PATRICK WILLIAM</b>			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Capstone	Patrick William	15	No	0600	0600		
Boots And Coots	Mike Baggett	1	No	0600	1800		
7. Control Operations							
<ul style="list-style-type: none"> <li>• Provide medical services.</li> <li>• Provide initial fire suppression.</li> <li>• Evacuate personnel, if needed.</li> <li>• Provide dedicated Fire Watch 24 hours.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• Advise on medical and fire precautions.</li> <li>• Determine Safety Zones and emergency exit routes.</li> <li>• In the event of an on-site fire or medical emergency, notify PIO, local fire and rescue emergency services.</li> <li>• Refer to Contingency Evacuation Guidelines.</li> </ul>							
TY							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Also Facility Command			CH 1	Also Facility Logistics/Safety			CH 2
Also Facility Tactical Div/Group			CH 3				
Unified Command	Rx: 152.5700 Tx: 157.8300	Tone 14 151.4	LAC V-4	Emergency Srv's Branch Tactical	Rx: 154.3025 Tx: 154.3025	Tone 6 156.7	VFIRE26
Unified Tactical	Rx: 154.2650 Tx: 154.2650	Tone 6 156.7	VFIRE22	Unified Tactical	Rx: 154.2875 Tx: 154.2875	Tone 6 156.7	VFIRE25
Prepared by (Resource Unit Ldr.)		Approved by (Planning Section Ch.)		Date		Time	
ALICIA STAVIS 		ADAM UEHARA 		01/12/16		1500	

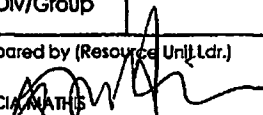

<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Emergency Services</b>		2. Division <b>Health &amp; Safety</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>	Branch Director					
Deputy Operations Chief	<b>RODGER SCHWECKE</b>	Division/Group Supervisor					
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Site Safety Manager	Sonja Rodriguez	1	No	0600	1800		
Industrial Hygiene		1	No	0600	1800		
Boot & Coots		1	No	0600	1800		
IHM	Paul J. Ciazmar	1	No	0600	1800		
7. Control Operations							
<ul style="list-style-type: none"> <li>• Monitor work sites for safety.</li> <li>• Monitor air for health and safety.</li> <li>• Permit or shut down operations based on health and safety conditions.</li> <li>• Refer to Well Management Trigger Points as necessary.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• If LELs meet or exceed levels noted in the "Well Management Trigger points", issue "stop the job".</li> <li>• If gas monitoring reaches levels of concern, issue "stop the job".</li> <li>• Refer to Safety Message.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			CH 1	Logistics/Safety			CH 2
Tactical Div/Group			CH 3				
Prepared by (Resource Unit Ldr.) ALICIA MATTHEWS 		Approved by (Planning Section Ch.) ADAM UEHARA 		Date 01/12/16		Time 1500	

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>Emergency Services</b>		2. Group <b>SECURITY (DAY)</b>		
3. Incident Name <b>SS-25 INCIDENT</b>			4. Operational Period Date: <b>01/13/16 -01/19/16</b> Time: <b>0800-1800</b>				
5. <b>Operations Personnel</b>							
Operations Chief		<b>BRET LANE</b>		Branch Director			
Deputy Operations Chief		<b>RODGER SCHWECKE</b>		Division/Group Supervisor		<b>DAVID IGNACIO</b>	
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader		Number Persons	Trans. Needed	Drop Off PT./Time		Pick Up PT./Time
Security			1	No	0600		1800
Ensign			2	No	0600		1800
Pinkerton			5	No	0600		1800
7. Control Operations							
<ul style="list-style-type: none"> <li>Maintain facility security.</li> <li>Staff designated security check points.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>In the event of a security breach, notify PIO, local law enforcement, Sempra Corporate Security, and SoCalGas personnel.</li> <li>Notify Los Angeles County Fire Department of TFR violations.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			CH 1	Logistics/Safety			CH 2
Tactical Div/Group			CH 3				
Prepared by (Resource Unit Ldr.)			Approved by (Planning Section Ch.)			Date	Time
ALICIA MATHEIS 			ADAM UEHARA 			01/12/16	1500

<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Emergency Services</b>		2. Group <b>SECURITY (NIGHT)</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 - 01/19/16</b> Time: <b>1800-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>	Branch Director					
Deputy Operations Chief	<b>RODGER SCHWECKE</b>	Division/Group Supervisor		<b>DAVID IGNACIO</b>			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Ensign	Terry Vargovich	3	No	1800	0600		
Pinkerton	CSOC (619)725-8614	1	No	1800	0600		
7. Control Operations							
<ul style="list-style-type: none"> <li>• Maintain facility security.</li> <li>• Staff designated security checkpoint(s).</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• In the event of a security breach, notify PIO, local law enforcement and Sempra Corporate Security, and SoCalGas personnel.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			<b>CH 1</b>	<b>Logistics/Safety</b>			<b>CH 2</b>
Tactical Div/Group			<b>CH 3</b>				
Prepared by (Resource Unit Ldr.) <b>ALICIA MATHIS</b> 		Approved by (Planning Section Ch.) <b>ADAM UEHARA</b> 		Date <b>01/12/16</b>		Time <b>1500</b>	

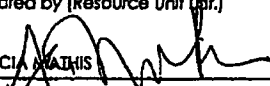





<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Environmental</b>		2. Group <b>Decontamination – SS 5</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>	Branch Director	<b>JILL TRACY</b>				
Deputy Operations Chief	<b>RODGER SCHWECKE</b>	Division/Group Supervisor	<b>JILL TRACY</b>				
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
KVAC	Taylor Blackwell	5	No	0600	1800		
7. Control Operations							
<ul style="list-style-type: none"> <li>Continue to decontaminate vehicles and equipment used for operations at SS-25 and SS-1.</li> <li>Use Simple Green and solution to rinse and clean.</li> <li>Use 6mm plastic barrier and 55 gallon drums to capture run off.</li> <li>The runoff is captured in secondary containment and transferred to a Baker Tank via vacuum truck.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>All personnel shall wear appropriate PPE including (Gloves, Suits and Eye Protection).</li> <li>Contaminated gloves and rags are to be disposed in appropriately marked 55 gallon drums.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			<b>CH 1</b>	<b>Logistics/Safety</b>			<b>CH 2</b>
Tactical Div/Group			<b>CH 3</b>				
Prepared by (Resource Unit Ldr.) ALICIA MATHIS 		Approved by (Planning Section Ch.) ADAM UEHARA 		Date 01/12/16		Time 1500	


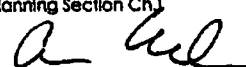
<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Environmental</b>		2. Division <b>Community Air Monitoring &amp; Mitigation</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0800-0800</b>					
5. <b>Operations Personnel</b>							
Operations Chief		<b>BRET LANE</b>		Branch Director <b>JILL TRACY</b>			
Deputy Operations Chief		<b>RODGER SCHWECKE</b>		Division/Group Supervisor <b>JOHN CLARKE</b>			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Air Kinetics	Son Bul	2	No	0600	1800		
SCEC	Rudy Nunez	2	No	0600	1800		
Geosyntec	Sam Williams	5	No	0600	1800		
Kuma	Jim Ippollito	1	No	0600	0600		
7. Control Operations							
Respond to South Coast Air Quality Management District Order For Abatement by:							
<ul style="list-style-type: none"> <li>Stopping the leak as quickly as possible.</li> <li>Capture all leaking gas as quickly as possible.</li> <li>Utilize all gas from the reservoir as quickly as possible until leak is stopped.</li> <li>Inspect and maintain all wells as quickly as possible.</li> <li>Monitor all emissions from the well and the reservoir.</li> <li>Retain and independent third party to conduct a health study.</li> <li>Mitigate greenhouse gas impacts of the leak by funding projects that restore value to the community.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>Refer to safety message misting event.</li> <li>Refer to map (Air Collection Sampling Sites).</li> <li>In efforts to control the odorant Mercaptan, any process that may generate contaminants impacting the community shall be approved by the County of Los Angeles Fire Department Health Hazardous Materials Division.</li> <li>See attached aerial map from AQMD.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			<b>CH 1</b>	<b>Logistics/Safety</b>			<b>CH 2</b>
Tactical Div/Group			<b>CH 3</b>				
Prepared by (Resource Unit Ldr.) ALICIA MATHE 		Approved by (Planning Section Ch.) ADAM UHARA 		Date 01/12/16		Time 1500	

<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Environmental</b>		2. Division <b>Facility Liquid Release Response &amp; Mitigation</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 - 01/19/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>	Branch Director	<b>JILL TRACY</b>				
Deputy Operations Chief	<b>RODGER SCHWECKE</b>	Division/Group Supervisor	<b>MUSHFIQ RAHMAN</b>				
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
Liquid Release Response	Mushfar Rahman	4	No	0600	1800		
Doby Hagar Trucking	Dylan Hager	5	No	0600	1800		
KVAC	Taylor Blackwell	4	No	0600	1800		
Geosyntec	Roxanna Ramirez	22	No	0600	1800		
7. Control Operations <ul style="list-style-type: none"> <li>Take precautionary measures: <ul style="list-style-type: none"> <li>Contain liquid releases.</li> <li>Station vacuum trucks.</li> <li>Station waddles.</li> <li>Position sand bags.</li> </ul> </li> </ul>							
8. Special Instructions <ul style="list-style-type: none"> <li>If release occurs, contain liquids and initiate clean up. Develop mitigation strategies and conduct related activities.</li> <li>Provide decontamination based upon guidelines in the Safety Message.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			<b>CH 1</b>	<b>Logistics/Safety</b>			<b>CH 2</b>
Tactical Div/Group			<b>CH 3</b>				
Prepared by (Resource Unit Ldr.) <b>Alicia Mathis</b>		Approved by (Planning Section Ch.) <b>ADAM UEHARA</b>		Date <b>01/12/16</b>		Time <b>1500</b>	

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>Information</b>		2. Group <b>Public Information</b>			
3. Incident Name <b>SS-25 INCIDENT</b>			4. Operational Period Date: <b>01/13/16 - 01/18/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>								
Operations Chief		<b>BRET LANE</b>		Branch Director		<b>LISA ALEXANDER / RON VANDERLEEDEN</b>		
Deputy Operations Chief		<b>RODGER SCHWECKE</b>		Division/Group Supervisor		<b>ANN AYERS</b>		
6. <b>Resources Assigned this Period</b>								
Strike Team/Task Force/ Resource Designator	Leader		Number Persons	Trans. Needed	Drop Off PT./Time		Pick Up PT./Time	
7. <b>Planned Communications</b>								
<ul style="list-style-type: none"> <li>• Staff Community Resource Center (CRC) located at 19731 Rinaldi Street.</li> <li>• CRC hours of operation are 10:00 A.M. to 8:00 P.M. (weekdays) and 10:00 A.M. to 6:00 P.M. (weekends)</li> <li>• Update external SoCalGas website.</li> <li>• Continue to staff information booth.</li> <li>• Upload documents to Joint Information Center (via Google Drive).</li> <li>• Update media log on Joint Information Center (via Google Drive).</li> </ul>								
8. <b>Special Instructions</b>								
<ul style="list-style-type: none"> <li>• Porter Ranch Neighborhood Council</li> <li>• Community (Residents, Homeowner Associations, Schools, and Faith Based organizations)</li> <li>• Local School District Office</li> <li>• Hospitals</li> </ul>								
9. <b>Division/Group Communication Summary</b>								
Function	Frequency	System	Channel	Function	Frequency	System	Channel	
Command			CH 1	Logistics/Safety			CH 2	
Tactical Div/Group			CH 3					
Prepared by (Resource Unit Ldr.) <i>ALYSA MARTIS</i>			Approved by (Planning Section Ch.) <i>ADAM UEHARA</i>			Date 01/12/16		Time 1500

<b>DIVISION ASSIGNMENT LIST</b>			<b>1. Branch Information</b>		<b>2. Group Agency/Stakeholder Information</b>		
3. Incident Name <b>SS-25 INCIDENT</b>			4. Operational Period Date: 01/13/16 – 01/19/16 Time: 0600-0800				
<b>5. Operations Personnel</b>							
Operations Chief		<b>BRET LANE</b>		Branch Director		<b>LISA ALEXANDER / RON VANDERLEEDEN</b>	
Deputy Operations Chief		<b>RODGER SCHWECKE</b>		Division/Group Supervisor		<b>TONY TARTAGLIA</b>	
<b>6. Resources Assigned This Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
7. Planned Communications <ul style="list-style-type: none"> <li>Agency briefing calls and stakeholder emails.</li> </ul>							
8. Special Instructions <p>Assisting Agencies:</p> <ul style="list-style-type: none"> <li>Los Angeles City Fire Department.</li> <li>Los Angeles City Emergency Management Department</li> <li>Los Angeles County Fire Department</li> <li>Los Angeles County Office Emergency Management</li> <li>CAL OES</li> <li>Los Angeles County Board of Supervisors</li> <li>LA City Council</li> <li>Cal OSHA</li> <li>Other as identified</li> <li>Los Angeles Police Department</li> </ul>							
<b>9. Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			CH 1	Logistics/Safety			CH 2
Tactical Div/Group			CH 3				
Prepared by (Resource Unit Ldr.) ALICIA MAIHIS 		Approved by (Planning Section Ch.) ADAM UEHARA 		Date 01/12/16		Time 1500	

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>Information</b>		2. Group <b>Media Information</b>			
3. Incident Name <b>SS-25 INCIDENT</b>			4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0600-0600</b>					
5. <b>Operations Personnel</b>								
Operations Chief		<b>BRET LANE</b>		Branch Director		<b>LISA ALEXANDER / RON VANDERLEEDEN</b>		
Deputy Operations Chief		<b>RODGER SCHWECKE</b>		Division/Group Supervisor		<b>ANN SILVA</b>		
6. <b>Resources Assigned this Period</b>								
Strike Team/Task Force/ Resource Designator	Leader		Number Persons	Trans. Needed	Drop Off PT./Time		Pick Up PT./Time	
7. Planned Communications <ul style="list-style-type: none"> <li>Respond to media inquiries.</li> </ul>								
8. Special Instructions								
9. <b>Division/Group Communication Summary</b>								
Function	Frequency	System	Channel	Function	Frequency	System	Channel	
Command			CH 1	Logistics/Safety			CH 2	
Tactical Div/Group			CH 3					
Prepared by (Resource Unit Ldr.) ALICIA MATHIS 			Approved by (Planning Section Ch.) ADAM UEHARA 			Date 01/12/16		Time 1500

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch <b>Evacuation / Contingency</b>		2. Group		
3. Incident Name <b>SS-26 INCIDENT</b>			4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0800-0800</b>				
5. <b>Operations Personnel</b>							
Operations Chief		<b>BRET LANE</b>		Division/Group Supervisor		<b>Los Angeles Fire Department, Los Angeles Police Department</b>	
Deputy Operations Chief		<b>RODGER SCHWECKE</b>		Air Attack Supervisor No.			
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator		Leader		Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
<b>Duty Personnel</b>							
7. Control Operations							
8. Special Instructions							
<ul style="list-style-type: none"> <li><b>In the event the Incident Commander orders an Evacuation of the Operational Area or the Utility Property, 911 shall be activated notifying off site first responders.</b></li> </ul> <p style="text-align: center;"><b>See Attached Contingency/Evacuation Guidelines</b></p>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			CH 1	Logistics/Safety			CH 2
Tactical Div/Group			CH 3				
Prepared by (Resource Unit Ldr.)		Approved by (Planning Section Ch.)			Date		Time
ALICIA MATHES 		ADAM UEHARA 			01/12/16		1500

<b>DIVISION ASSIGNMENT LIST</b>		1. Branch <b>Customer Assistance</b>		2. Group <b>Relocation</b>			
3. Incident Name <b>SS-25 INCIDENT</b>		4. Operational Period Date: <b>01/13/16 – 01/19/16</b> Time: <b>0800-0600</b>					
5. <b>Operations Personnel</b>							
Operations Chief	<b>BRET LANE</b>	Branch Director	<b>GILLIAN WRIGHT / SARA FRANKE</b>				
Deputy Operations Chief	<b>RODGER SCHWECKE</b>	Division/Group Supervisor	<b>STEVE HRUBY</b>				
6. <b>Resources Assigned this Period</b>							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
7. Planned Communications							
Handle the relocation requests and provide the following updates for the daily 209:							
<ul style="list-style-type: none"> <li>• Total temporary housing inquiries.</li> <li>• Total number of residents offered temporary housing.</li> <li>• Currently in placement process (handled by temporary housing partners).</li> <li>• Calls pending resolution.</li> </ul>							
8. Special Instructions							
<ul style="list-style-type: none"> <li>• Make available to approximately 30,000 Porter Ranch families an opportunity for relocation.</li> <li>• Relocation requests shall be accommodated within a 72 hour timeframe per agreement with the Los Angeles City attorney.</li> </ul>							
9. <b>Division/Group Communication Summary</b>							
Function	Frequency	System	Channel	Function	Frequency	System	Channel
Command			CH 1	Logistics/Safety			CH 2
Tactical Div/Group			CH 3				
Prepared by (Resource Unit Ldr.) <i>[Signature]</i> ALICIA MATOS		Approved by (Planning Section Ch.) <i>[Signature]</i> ADAM UEHARA		Date 01/12/16		Time 1500	




## **CONTINGENCY / EVACUATION GUIDELINES**

**The enclosed guidelines shall be initiated if the Incident Commander orders the evacuation of the Operational Zone around the well and if a hazard will impact populated areas off of the Utility Property.**

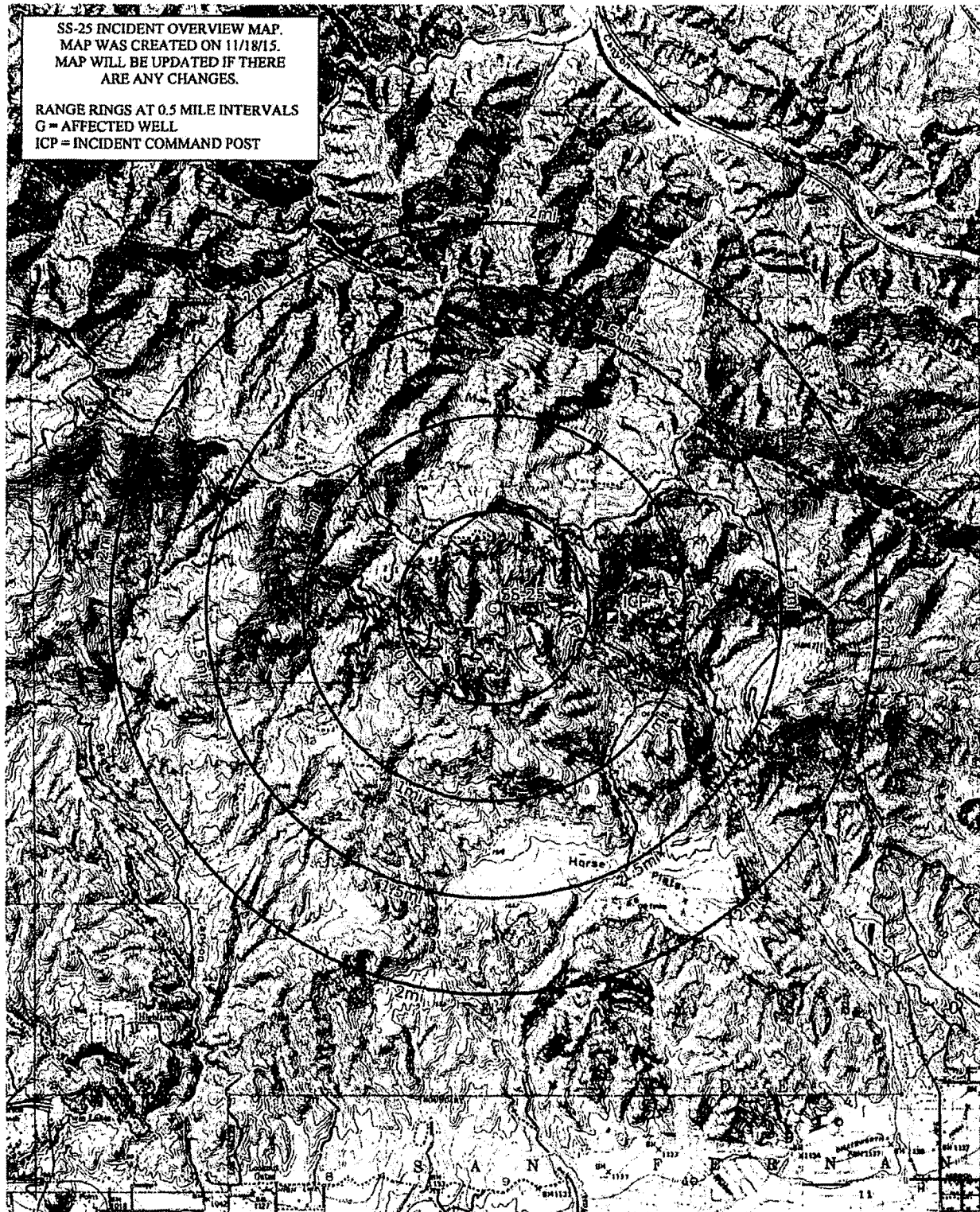
- Order and confirm the Evacuation off of the property.
- Activate 911 to notify off-site First Responders of the emergency
  - 911 notification shall include the nature of the emergency (an evacuation of the facility has been ordered) and a confirmation of the address at the Gate Entrance of the facility (12801 Tampa Ave. Porter Ranch 91326)
- Notify Operations Chief, PIO and on-site security.
- Avideh Razavi shall respond to the Security Building at the entrance of the facility to meet Los Angeles Fire Department and Los Angeles Police Department authorities.
- Avideh Razavi shall be capable of delivering a verbal summary report of the emergency circumstances to the arriving authorities.
- The Los Angeles Fire Department (Metro) & Los Angeles County Fire Department (Fire Command & Control) dispatch centers have been notified of the potential for the activation.
- The Los Angeles Fire Department will arrive, evaluate, and determine what course of action to initiate under their Pre-Planned Evacuation Procedures for the local geographic area.
  - This is coordinated with the Los Angeles Police Department
- Additional resources will be ordered as determined by the off-site first responders.

INCIDENT RADIO COMMUNICATIONS PLAN		Incident Name			Date/Time Prepared			Operational Period Date/Time				
		<b>SS-25</b>			<b>12/2/2015 1350</b>			<b>01/13/16 - 01/19/16 0600 - 0600</b>				
Utilization of any frequency other than those listed on this form are prohibited, subject to fines by the FCC and demobilization from the incident.												
Zn	Ch	Function	Channel Name/Trunked Talkgroup	Assignment	RX Freq	RX Tone/NAC	TX Freq	Tx Tone/NAC	Dev	Pwr	Mode A, D, M	Remarks
Zn2	Ch3	ADMIN	LAC BLUE3	IC / COMM / "LA"	470.6125	CSQ	473.6125	Tone 14 151.4	W	H	A	
Zn10	Ch3	COMMAND	LAC V-4	OPERATIONS	152.5700	Tone 14 151.4	157.8300	Tone 14 151.4	N	H	A	
Zn10	Ch8	TACTICAL	VFIRE26	EMERGENCY SRVS BRANCH	154.3025	Tone 6 156.7	154.3025	Tone 6 156.7	N	L	A	
Zn10	Ch12	TACTICAL	VFIRE22	FIRE TAC	154.2650	Tone 6 156.7	154.2650	Tone 6 156.7	N	L	A	
Zn10	Ch11	TACTICAL	VFIRE25	FIRE TAC	154.2875	Tone 6 156.7	154.2875	Tone 6 156.7	N	L	A	
Zn2	Ch12	TACTICAL	LAC U-17D	CRW/DOZIER	453.9750	Tone 14 151.4	453.9750	Tone 14 151.4	N	H	A	
		COMMAND	CH 1	OPERATIONS								Aliso Facility
		TACTICAL	CH 2	LOGISTICS								Aliso Facility
		TACTICAL	CH 3	GROUP								Aliso Facility
Zn10	Ch14	Air-to-Ground	LAC A/G	Air-to-Ground	154.4000	Tone 14 151.4	154.4000	Tone 14 151.4	N	H	A	
Zn10	Ch16	EMERGENCY	AIR GUARD	EMERGENCY	168.6250	CSQ	168.6250	Tone 1 110.9	N	L	A	
Prepared By (Communications Unit Leader)					Incident Location							
Travis Wight, LAC COML (562) 762-7304 Cell					So Cal Gas Co Porter Ranch, CA							
					County LAC		State CA		Latitude: 034 18.460 N		Longitude: 118 33.063W	
The convention calls for frequency lists to show four digits after the decimal place (five digits for 700 MHz frequencies). "N" or a "W" depending on whether the frequency is narrow or wide band. Mode refers to either "A" (Analog), "D" (Digital i.e. P25) or "M" (Mixed) mode. All channels are shown as if programmed in a control station, mobile or portable radio. Portable repeater(s) and base stations must be programmed with the Rx and Tx reversed.												

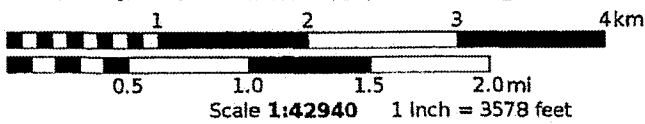
<b>MEDICAL PLAN</b>	1. Incident Name	2. Date Prepared	3. Time Prepared	4. Operational Period							
	SS-25 INCIDENT	01/12/2016	1200	01/13/2016 - 01/19/2016 0800-0800							
<b>5. Incident Medical Aid Station</b>											
Medical Aid Stations		Location			Paramedics						
					Yes	No					
SS-9 (Capstone FD EMS)		Limekiln Canyon Trail				X					
<b>6. Transportation</b>											
<b>A. Ambulance Services</b>											
Name		Address		Phone		Paramedics					
						Yes	No				
LFD FS 8		11351 Tampa Avenue		818-756-8668			X				
LFD RA 107		20225 Devonshire Street		818-756-8607		X					
<b>B. Incident Paramedics</b>											
Name		Location			Paramedics						
					Yes	No					
<b>7. Hospitals</b>											
Name		Address		Travel Time		Phone		Helped		Burn Center	
				Air	Ground			Yes	No	Yes	No
Northridge M.C.		18300 Roscoe Blvd., Northridge		7	20	818-885-8500		X			X
Holy Cross M.C.		15031 Rinaldi Street, Mission Hills		5	15	818-365-8051		X			X
West Hills Hosp.		7300 Medical Center Dr., West Hills		10	25	818-676-4000		X		X	
<b>8. Medical Emergency Procedures</b>											
<ul style="list-style-type: none"> <li>• Remove injured personnel to safe location</li> <li>• Capstone personnel provide immediate EMS, including decontamination</li> <li>• Notify 911 system</li> <li>• LFD personnel assess patient &amp; decide transport mode (ground/air) &amp; destination</li> <li>• Notify SS-25 Incident Commander of an injury</li> </ul>											
Prepared by (Medical Unit Leader)						10. Reviewed by (Incident Safety Officer)					
											

SS-25 INCIDENT OVERVIEW MAP.  
MAP WAS CREATED ON 11/18/15.  
MAP WILL BE UPDATED IF THERE  
ARE ANY CHANGES.

RANGE RINGS AT 0.5 MILE INTERVALS  
G = AFFECTED WELL  
ICP = INCIDENT COMMAND POST



Mercator Projection  
WGS84  
USNG 11SLT-11SLU  
CalTopo.com



## Air Sampling Collection Sites

The green points below indicate where air samples are being collected in the neighboring communities on a consistent basis. The blue points indicate where additional samples have been collected.

Air sampling is also being conducted within the Aliso Canyon facility in several locations upwind of the neighboring communities. The green squares indicate where air samples are being collected on a consistent basis. Additional sampling and real-time air monitoring are also being conducted near the leak site, indicated in yellow.



Due to security policies, SoCalGas must obscure the features of the map covering the storage facility

