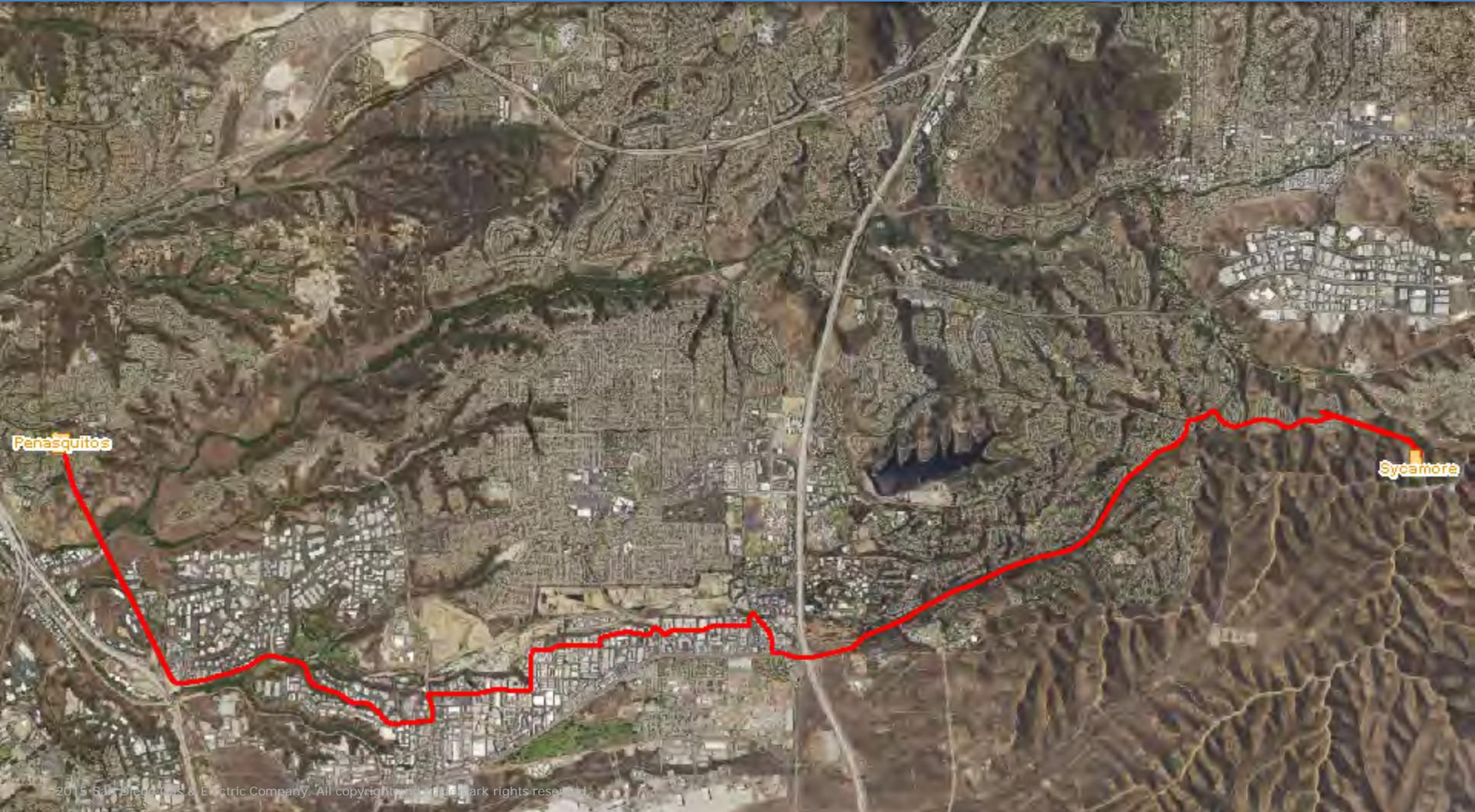


# *Sycamore to Peñasquitos 230 kV Transmission Line Project*

*Safety & Environmental Awareness Program*



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# Program Overview

- Welcome and Introduction
- Project Overview
- Roles and Responsibilities
- Regulatory Authority
- General Environmental Provisions
- Incident Reporting
- Resource Specific Information

# *Welcome and Introduction*

## Goals for the Meeting:

- Meet the Project Team
- Understand Roles and Responsibilities
- Discuss environmental compliance and permit condition requirements
- Review safety (including fire) requirements
- Address Questions

# Meet the Project Team



- **SDG&E Project Manager – *Matt Huber***
  - Provides direction, management, leadership, and corporate coordination for the project.
- **SDG&E Construction Manager – *Chuck Eck***
  - Responsible for managing Field Construction Advisors (FCAs) and Contract Administrators (CAs) and providing oversight of the Construction Contractor.
- **SDG&E Environmental Project Manager – *Jennifer Kaminsky***
  - Provides direction and management of MMCRP Compliance.
- **SDG&E Environmental Compliance Lead – *Edith Moreno***
  - Responsible for supervising the day-to-day compliance efforts.
- **SDG&E Lead Environmental Inspector - *Ron Walker***
  - Oversees and verifies the day-to-day environmental compliance effort and is the primary field employee responsible for verifying and documenting environmental compliance.
- **Training/Reporting Coordinator – *Chelsea Ohanesian***
  - Assists in training preparation, compliance reporting, management tasks and supports the LEI on an as-needed basis.

# Meet the Project Team

- **Biological Monitors** – Assures that during construction the avoidance and minimization measures for biological resources are being implemented.
- **Paleontological Monitors** - Observes excavation operations that involve the original cutting of previously undisturbed deposits.
- **Cultural Monitors** – Monitors construction activities in the vicinity of all known cultural resources, evaluates any finds, conducts an analysis of collected materials, and prepares a monitoring results report.
- **Native American Monitors** – Monitors construction activities in areas which have the potential to impact Native American resources.
- **SWPPP Monitors** – Administers the SWPPP and conducts the required inspections.

# Meet the Project Team

- **CPUC Project Manager** – *Billie Blanchard*
  - Lead representative for the CPUC.
- **CPUC Monitoring Manager** - *Jeff Thomas*
  - Supports CPUC PM and oversees mitigation monitoring effort.
- **CPUC Monitoring Supervisor** – *Sheila Hoyer*
  - Oversees day-to-day mitigation monitoring effort.
- **CPUC Environmental Monitors**
  - Primary field personnel, responsible for verifying compliance with project requirements.



# Regulatory Authority

- California Public Utilities Commission (CPUC)
  - Mitigation, Monitoring, Compliance, and Reporting Program (MMCRP)
- California Coastal Commission
- Caltrans
- U.S. Marine Corps Air Station (MCAS) Miramar
- United States Fish and Wildlife Service
- California Department of Fish and Wildlife
- City of San Diego
- Other Federal, State, and Local Agencies

# Ground Rules

- Stay in approved work areas and work during approved work hours
- Drive on approved access roads
- Do not feed/disturb/collect wildlife or plant species
- No pets/firearms
- No wildlife, including rattlesnakes, may be harmed, except to protect life and limb
- Implement measures to prevent wild fires
- Maintain BMPs
- Do not litter; Cover trash bins
- Clean-up/report spills
- Do not work in areas deemed biologically, culturally, or paleontologically sensitive without a monitor
- Communicate and ask questions!

# *Resource Specific Information*

# *Air Quality*



# Air Quality

## Dust Control

Dust control procedures, as described in the Dust Control Plan, include the following:

- Cover soil stockpiles.
- Minimize dirt being tracked out onto paved surfaces using rumble plates or rock apron (gravel) and keep paved areas clean of soil.
- Cease project activity during wind events averaging greater than 20 mph.
- All truck loads with loose material should be covered and secured or have at least 2 ft. of freeboard.
- Apply water as needed to minimize visible dust.



# Air Quality

## Emissions

- Crew carpooling is encouraged.
- Vehicle speeds should be 15 mph or less on unpaved areas unless otherwise posted.
- Use 2007 and newer diesel-powered equipment, or use available construction equipment that meets a minimum of EPA Tier-3 emission standards.
- A log of all construction equipment used on the project, including engine identification number and certified Tier specification, must be maintained and submitted to the CPUC weekly.
- 5-minute idle limit; turn engines off.





# *Noise*



# Noise

## Reduce noise impacts by implementing the following measures:

- Shield residences from generators or other equipment with sound walls or acoustic blankets.
- Minimize vehicle use and idling (*5 minute idling limit*).
- Limit helicopter take-off and landings to designated areas (must be at least 300 ft. from sensitive receptors).
- Route construction traffic away from schools and residences, where feasible.
- Project work hours are limited to 7:00 am-7:00 pm Monday – Saturday (not including holidays) except when authorized by local variance.



# ***Biological Resources***



# ***Biological Resources***

## ***Special -Status Wildlife Species***

Please avoid and notify the Lead Environmental Inspector or Biological Monitor immediately if wildlife is observed. Examples of special-status wildlife species which could occur onsite include:

- Burrowing Owl
- Coastal California Gnatcatcher
- Least Bell's Vireo
- San Diego Desert Woodrat
- Quino Checkerspot Butterfly

# ***Biological Resources***

## ***Special-Status Wildlife Species***

**San Diego  
Desert Woodrat**



State species of special concern; coastal sage scrub.

**Quino Checkerspot  
Butterfly**



Federally listed Endangered species.

**Least Bell's  
Vireo**



Federally listed endangered species; riparian habitat.

# ***Biological Resources***

## ***Sensitive Species***

### **California gnatcatcher**



Federally threatened,  
State species of special  
concern; coastal  
sage scrub.

### **Burrowing owl**



State species of special concern;  
dry, open, short-grass areas  
often associated with  
burrowing mammals.

# ***Biological Resources***

## ***Special Status Plants and Sensitive Habitats***



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Avoid special-status plant and sensitive habitats by staying within approved work limits. Examples of special-status plant and sensitive habitats which could occur onsite include:



San Diego sagewort



Nuttall's scrub oak



San Diego marsh-elder

# *Biological Resources*

## *Vegetation, Wildlife, and Habitat Protection*



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- Only clean (free of mud and vegetation) equipment will be allowed on the Project.
- Equipment will need to be cleaned when relocated to another work area as directed by the EI.
- Keep equipment and work boots clean (avoids the introduction of invasive weeds).
- Never collect any plants.
- Stay on approved roadways and designated work areas.



# Biological Resources

## What are the penalties?!

- Special-status plant and wildlife species are afforded protection at the State and Federal level which include:
  - Migratory Bird Treaty Act
  - Federal Endangered Species Act
  - California Department of Fish and Game Code
  - California Endangered Species Act
- Direct and indirect impacts to special-status plant and wildlife could result in substantial fines and imprisonment.



# ***Cultural Resources***



# Cultural Resources

- An archaeological monitor and/or Native American monitor will be present during vegetation clearing and ground-disturbing activities in sensitive areas.
- The archaeologist or the Native American monitor has the authority to stop work in the vicinity of the discovery as deemed necessary by the monitor, at a minimum a 50 foot radius will be established if a discovery is made to allow evaluation of resources.
- Stop work immediately in any areas where human remains are encountered. SDG&E will contact the coroner's office.
- Cultural resource information is confidential and protected by federal, state, and local laws.



# ***Paleontological Resources***



# Paleontological Resources

- Paleontological resources (i.e., fossils) are the remains and/or traces of prehistoric plant and animal life that are 10,000 years or older.
- Fossil remains such as bones, teeth, shells, leaves, and wood are found in the geologic deposits (rock formations).
- A Paleontological Monitor will be present during excavation in highly sensitive geologic formations.
- If you suspect you have encountered paleontological materials, stop the activity in the area and contact the Lead Environmental Inspector or Paleontological Monitor for further evaluation.
- The Paleontological Monitor has the authority to stop work within a 50 foot radius of the discovery if fossils are encountered.



# ***Hazardous Materials***



# Hazardous Materials

- Hazardous materials include vehicle maintenance chemicals, universal waste (aerosol cans, batteries, light bulbs), paint, and other materials with a Safety Data Sheet.
- The use of hazardous materials and wastes are subject to special management and disposal requirements.
- Follow Hazardous Substance Control and Emergency Response Plan protocols when handling materials.
- Wear appropriate PPE when handling hazardous materials.
- Keep Safety Data Sheets for all hazardous materials available.



# Hazardous Materials Housekeeping **SDGE** for Spill Prevention

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## The Five Principles:

- Labeling
  - All hazardous materials and waste must be properly labeled!!!
- Inspection
  - Inspect stored materials regularly.
- Condition
  - Containers must be kept closed when not in use and in good condition with no cracks or signs of corrosion.
- Compatible
  - Containers must be compatible with stored materials and with materials stored nearby.
- Storage
  - Hazardous materials should be stored in designated storage areas that are properly SIGNED and SECURED with adequate aisle space, posted emergency phone numbers and in a manner that prevents or minimizes the potential for leaks, drips, spills, and ruptures.



**HAZARDOUS WASTE**

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL

If spilled contact the release agency or your employer.  
Do not touch the spill. Do not breathe the vapors or dusts.  
Do not get in eyes, on clothing, or on skin.

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Date: \_\_\_\_\_

**HANDLE WITH CARE!**

# ***Hazardous Materials Spill & Release Response and Reporting***

If a release does occur, effective and prompt response will help reduce the potential for hazardous materials to threaten human health and the environment.

- If it is safe to do so, stop the release and prevent further dispersal.
- Notify the SDG&E field representative and/or Environmental Inspector (EI).
- Project personnel will work together to determine next steps to properly contain, cleanup, store, and dispose of the release.
- The field representative or EI will contact the SDG&E Environmental Compliance Lead and the SDG&E Hazardous Materials Specialist (HMS) as needed to notify them of the release.
- In the event you feel your safety or the safety of others is threatened by the release, call 911.



# ***Water Quality***



# Water Quality

- Install and maintain best management practices (BMPs) in accordance with the Project Storm Water Pollution Prevention Plan (SWPPP).
- Notify the environmental inspector if any BMPs require maintenance.
- Stabilize areas of construction activity that have been disturbed and where no work is planned for at least 14 days.
- Do not allow silty water or other unauthorized non-stormwater discharges (oils, gas, chemicals) to enter drainages or storm drains.
- No fueling of vehicles or maintenance of equipment in waterways (drainages, streams, and wetlands).



# Water Quality

## Recycled Water

- Recycled water will be used on site when feasible.
- Recycled water is extensively treated and monitored in accordance with various laws and regulations.
- Separate water tanks must be used for recycled water to prevent its mixing with potable water.
- Warning signs must be posted on all trucks/equipment and areas where recycled water is being used.
- Recycled water may contain bacteria so avoid direct contact, however if direct contact is made make sure to wash your hands.





***Safety***



# Safety

## General Construction Safety

- Make sure you know the specific hazards to each jobsite you are at by reviewing daily tailboards and JSAs.
- Public safety is of utmost importance and shall be taken seriously by all project personnel; all employees have the right and obligation to STOP work when any unsafe act or condition is recognized.
- No weapons or pets of any kind are allowed within the boundaries of the Project.
- No cell phone use allowed in work zone.



# Safety

## Personal Protective Equipment (PPE)



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- The following PPE shall be worn by all project personnel while on the right-of-way:
  - ANSI approved hard hat
  - Appropriate footwear
  - ANSI approved safety glasses or ANSI approved prescription glasses with side shields
  - High-visibility vest or clothing
- Additional PPE is required per job task and/or job classification.
- Inspect all PPE daily and keep in good working condition.
- Night work requires wearing a Class 3 Safety Vest.



# Safety

## Tailboards/ Job Safety Analysis (JSA)



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- Daily tailboards or JSA's shall be "Site Specific" and will be conducted every day, prior to any work, at every site.
- Tailboards/JSA's:
  - Provide sequence of tasks
  - Identify all hazards present
  - Identify control measures to mitigate hazards
- Additional safety program may be required by contractor(s).

# Safety

## *Injury, Illness, and Emergencies*



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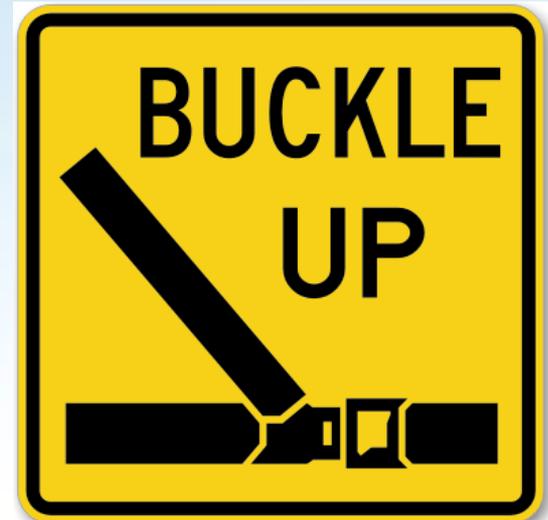
- Immediately report all injuries, illnesses, safety related incidents, traffic accidents observed, exposures and property damages to a supervisor.
- For minor injuries, administer 1<sup>st</sup> Aid as appropriate and notify project supervision
- For major injuries and emergencies, dial 9-1-1 to contact Emergency Medical Services



# Safety

## Heavy Equipment Operations

- Never operate any equipment without the proper training.
- Seat belts must be worn at all times.
- Workers and operators shall maintain eye contact.
- Complete daily equipment inspections.
- All employees who operate forklifts shall have completed training by an authorized instructor. The training must be updated every three years.
- Be aware of back-up alarms and remember: if you can't see the operator's eyes, they can't see YOU!



# Safety

## Trenches and Excavations



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- At least 48 hours prior to digging, call Dig Alert (8-1-1) and ensure all underground utilities are properly marked and located prior to digging.
- Trenches and excavations, the adjacent areas, and protective systems shall be inspected by the appropriate person prior to work on a daily basis.
- Excavations 5 ft. deep or greater must be protected by one of these protective systems: shoring, shielding, benching or sloping.
- Loose rock, spoils, material, and equipment must be kept 2 ft. from the excavation edge.
- A means of access/egress is required for trenches 4 ft. or greater. Employees shall work no more than 25 ft. from access/egress point.

# Safety

## Cranes

- Qualified and certified operators are required for all crane work.
- Qualified riggers will be utilized for rigging operations during assembly/disassembly and other activities when workers must be in the fall zone to handle a load.
- Qualified signal person shall be utilized when operator view is obstructed or when operator or person handling the load determines that it is necessary.
- Lift plans will be reviewed prior to the designated lift.



# Safety

## Helicopter Operations

- No unauthorized personnel within 100 ft. of aircraft.
- Never walk around the tail rotor area.
- Do not approach the helicopter after it has landed.
- Only qualified and authorized riggers shall rig loads and handle suspended loads.
- Stay clear of suspended loads.



# Safety

## Traffic

- All road work will be subject to local traffic authority and written plans, devices, and permits.
- If you notice traffic control devices or barricades have been knocked down, notify project supervision immediately.
- Wear appropriate PPE when working in a traffic control area.
- When working behind concrete barriers, do not sit, lean or stand next to them.
- Use strobes and/or beacons when entering or exiting a work zone.
- Do NOT move or alter barricades and signs.
- Coordinate travel to and from worksites and parking before entering a worksite.



# Safety

## Traffic

- The Project's Construction Transportation Management Plan provides procedures for minimizing the potential for traffic safety incidents. General guidelines for traffic control are as follows:
  - Use flaggers and/or signage to guide vehicles through or around construction zones and detours.
  - Detour pedestrian and bicycle traffic when sidewalks and bike lanes are closed.
  - Keep roadways clean and free of debris.
  - Avoid routing trucks along minor roads to reduce congestion and potential damage.
  - Keep lanes open during peak drive times (i.e., 6:00 a.m. - 9:30 a.m. & 3:30 p.m. - 6:30 p.m.) except as specifically required by the City of San Diego as part of the Encroachment Permit and Traffic Control Plan Processes.
  - Time worker commutes and material deliveries to avoid peak commuting.



# Safety

## Unexploded Ordnance (UXO)



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- A portion of the project traverses property belonging to MCAS Miramar. Unexploded ordnances or munitions may be encountered.
- All personnel will be required to attend a UXO awareness program prior to conducting work on MCAS Miramar.



# *Fire Prevention*



# Safety

## Fire Prevention

- SDG&E has prepared a Construction Fire Prevention Plan for the Project. The Plan must be adhered to at all times.
- Specific precautions apply to major operations work (MOW) areas.
- Other fire prevention measures include: regular watering; smoking restrictions, welding precautions, and fueling of equipment in designated areas only; and parking in areas absent of vegetation.
- Fire boxes will be located at each MOW site.
- Additional Fire Prevention measures apply in “Elevated” Conditions.
- No Work in “Extreme” Conditions.



# Safety

## Fire Prevention



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- At all times, project vehicles shall carry a shovel, pulaski and 5 gallon back pack pump. An ABC rated fire extinguisher is required during fueling of equipment. The use of shields, protective mats, or other fire prevention methods shall be used during grinding and welding to prevent or minimize the potential for fire.
- It is your responsibility to:
  - Know the daily Fire Potential Index (will be communicated to crew daily by foreman or site supervisor).
  - Follow Fire Prevention Matrix.
  - Have access to a communication device for emergency reporting.
  - Be aware of your surroundings, and always be prepared.



# Safety

## Fire Prevention

- Fire tools are required in all project vehicles under all operating level conditions:
  - 1 Round point shovel
  - 1 Pulaski
  - 1 Five-gallon backpack pump
- HOT WORK (e.g. welding, cutting & grinding of metal or other spark producing activities) also requires:
  - Wetting down surrounding vegetation.
  - 10 ft. of clearance surrounding work.
  - A "Fire Patrol" must be present during work and 1 hour after hot work is complete.



# Safety

## Small Fire Suppression



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- CALL 9-1-1
- Always wear PPE.
- Fire spreads in the direction of wind and slope.
- Always start at the bottom with wind at your back.
- Scrape a line using hand tools and spray water with the backpack pump.
- Always know your escape route.
- Stay aware of what's behind you.
- Always move to safety when you feel tired, unsure, or ineffective.



**REPORT ALL FIRES**

# *Incident Reporting*



# Incident Categories

- Deviation or non-compliance with a mitigation measure, permit condition, or regulation.

## Examples:

- Soil or construction material was placed outside of an approved work area in a non-sensitive area, but the material was removed at the end of the day.
- Project vehicles entered a sensitive resource exclusion area and damaged a resource.
- Health and safety incidents.
- Vehicle accidents that are related to Project traffic control or occur within/adjacent to Project work areas.
- Public complaints.

# Incident Reporting

Report ALL incidents to an Environmental Inspector, supervisor, Field Construction Advisor/Contract Administrator **immediately**. Incidents requiring reporting must be submitted by SDG&E to the CPUC within one business day.

- SDG&E and CPUC's most important responsibility is maintaining safe working conditions and protecting the public, including workers from exposure to hazards related to the Project.
- Public Complaints
  - SDG&E will maintain a Project Information Line during construction and will assign a dedicated Public Affairs Manager to the Project that will be responsible for tracking and handling public complaints.



# *Incident Reporting*

## *Compliance Level Incidents*

### **Level 3: Non-Compliance**

Event or observation that violates project requirements and impacts a resource.

### **Level 2: Compliance Deviation**

Event or observation that deviates from project requirements and puts a resource at risk, but is corrected without impacting the resource.

### **Level 1: Minor Problem**

Event or observation that slightly deviates from project requirements but does not put a resource at unpermitted risk.

# *Incident Reporting*

## *Compliance Incident Examples*

### **Level 3: Non-Compliance**

Vegetation clearing and grading of a work site prior to receiving NTP authorization from CPUC.

### **Level 2: Compliance Deviation**

A diesel-powered vehicle not in use was observed idling for more than 5 minutes.

### **Level 1: Minor Problem**

Project personnel used an unauthorized turnaround area or access road, but the site was previously disturbed and the action did not put a sensitive resource at risk.

# Incident Reporting

- All construction and oversight personnel (including environmental monitors) have the authority to temporarily halt construction activities if conditions pose a risk to:
  - Health and Safety
  - Sensitive Resources
  - Environmental Compliance
- SDG&E will notify CPUC. The CPUC may issue **Stop Work Orders** for construction of the Project.
- Non-Compliance can result in severe penalties.



EXERCISE YOUR RIGHT TO STOP UNSAFE  
ACTS OR CONDITIONS OBSERVED

# Public & Press Communication

If approached by a member of the public or press:

- Act cordially, but refrain from answering questions about the project.
- Do not make any statements on behalf of SDG&E
- Direct inquiries to:

**SDG&E Lead Environmental Inspector, Ron Walker:**  
**(619) 339-0831**

**SDG&E Public Liaison, Todd Voorhees: (619) 756-3578**

**SDG&E's Project Hotline (844) 765-6388**

***\* DO NOT POST  
PROJECT PHOTOS OR  
INFORMATION ON  
SOCIAL MEDIA SITES!***



# *Has Everyone Signed In?*



Ensure you have signed the form acknowledging participation in the program.

All crews are required to receive SEAP Training.

A SEAP Decal will be issued to you for your hardhat.

You will also receive an Information Handout and Emergency Contacts (FIRE) Decal.

*If someone new joins your crew have them coordinate with the SDG&E LEI to obtain the training prior to starting work.*

**ARE THERE ANY  
QUESTIONS?**