

Cleveland National Forest Power Line Replacement Projects

Construction Fire Prevention/Protection Plan

Rev. 10/19/2017

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1. CONSTRUCTION FIRE PREVENTION PLAN DEFINITIONS

- 1. ESP 113.1 SDG&E Wildland Fire Prevention & Fire Safety Plan (SDG&E ESP 113.1): This is an internal San Diego Gas & Electric (SDG&E) standard practice or procedure outlining fire suppression tools and equipment required for its employees and contractors, fire prevention requirements, and fire related training. This stand-alone project-specific fire plan incorporates all areas covered by ESP 113.1and includes additional requirments as identified in Mitigation Measure FF-1 of the Mitigation Monitoring, Compliance, and Report Program for the Cleveland National Forest Power Line Replacment Projects (Project). SDG&E's ESP 113.1 is included as an attachment to this Plan for reference.
- 2. Fire Coordinator (FC): An SDG&E employee who serves as liaison or agency representative to the fire agencies and other emergency services during an emergency and with other fire related activities in non-emergency situations. Dennis Baldridge has been designated as the SDG&E Fire Coordinator for the Project.
- **3. Fire Patrol:** Fire patrol(s) are personnel who are assigned the responsibility and accountability for fire prevention, risk management, early detection of fires, and rapid extinguishment (The Fire Patrol shall be documented daily)

A "*designated*" Fire Patrol is a member of a work crew assigned responsibility and accountability for fire prevention, risk mitigation, early detection of fires, and rapid extinguishment should one occur. This can be accomplished *co-laterally* with other work duties but must be ready to respond with appropriate fire equipment.

A "*dedicated*" Fire Patrol is a person(s) assigned duties associated with fire prevention and fire safety. The Fire Patrol will be assigned responsibility and accountability for fire prevention, risk mitigation, early detection of fires, and rapid extinguishment should one occur. This will be their *sole* duty while serving as a dedicated Fire Patrol, and are typically assigned to a fire engine or water tender, but not necessarily.

- **4. Fire Tools**: References to "fire tools" pertains to firefighting tools which include; shovel, Pulaski, 5 gallon backpack pump and fire extinguisher. These tools are commonly required on project vehicles and work sites. Additional requirements maybe identified which increase that number of fire tools above what is found on the vehicles.
- 5. Fire Threat Zone (FTZ): An area within the SDG&E service territory which identifies the wildland fire threat on a scale of low to extreme. This is a rating based on a combination of potential fire behavior (wildland fuel) and expected fire frequency. SDG&E has established practices within the FTZ on how it will construct facilities and identifies certain wildland fire safety practices.
- 6. At Risk Activity: Project activities that present a risk of igniting a wildfire.

7. Fire Potential Index (FPI): This index applies to non-CNF land and is a comprehensive assessment of fire risk, used as a tool for making operation & maintenance decisions related to fire prevention. The tool converts environmental, statistical, and scientific data into an easily understood forecast of short-term fire threat. The index is generated for a seven day forecast period for an assortment of geographic areas within the service territory. The 7-day forecast is used for planning purposes while the daily FPI is also used for work activities. The FPI is used to determine the operating condition for each day (Normal, Elevated, or Extreme), definitions of each to follow.

Normal Operating Condition: It is considered "Normal" operating condition when the FPI is in any shade of green (*very low, low, or moderate*). All O&M activities can take place in the wildland areas of the service territory without additional fire risk management, as long as baseline fire equipment is available as prescribed in this plan. Note; the baseline fire equipment requirements meet or exceed all local, state, & federal requirements for working in the wildland areas

Elevated Operating Condition: It is considered "Elevated" operating level when the FPI is either yellow or orange (high or very high). Certain "at risk" O&M activities (as identified in the matrix, attachment 2) will require additional risk management (as prescribed in the matrix, see attachment 2) to perform those work activities.

Extreme Operating Condition: It is considered "Extreme" operating level when the FPI is red (extreme). No "at risk" activities shall be conducted except for those activities which if, left undone present a greater risk than that involved with their accomplishment. These conditions will be considered an emergency and would be mitigated as such. Consultation with the On-duty Fire Coordinator is required to help make that determination and identify additional fire prevention measures required to reduce risk.

- 8. Project Activity Level (PAL): (Applies to CNF Land under the MSUP Only). PALs are used by the US Forest Service to regulate activities on Forest Service land. This term applies to work within the boundaries of the Cleveland National Forest. Any work being conducted within the boundaries of the CNF must be in compliance with the PAL restrictions and mitigations.
- **9. Red Flag Warning (RFW):** A Red Flag Warning is issued for a stated period of time by the National Weather Service (NWS) using pre-determined criteria to identify particularly critical danger in a particular geographic area.
- **10. Major Operation Worksite (MOW):** These work sites are typically large in size and include but are not limited to construction yards, tower construction sites, stringing site, substation pads and any other area where construction work will be concentrated. The criteria for identifying MOW is the number of people, type of work, and duration occupied.
- **11.Construction Fire Prevention Plan (CFPP):** Sometimes referred to as the Fire Plan. The plan will be developed and implemented by SDG&E to provide fire prevention guidance for a

specific construction project.

- **12.Project:** "Project" may be used interchangeably in place of the formal name of the project in the construction fire prevention plan.
- **13.Hot Work:** Metal cutting, welding, grinding, activities that require open flame and/or have a high a probability of producing sparks. These activities require a hot work permit and may have different requirements depending on land ownership or the fire agency having jurisdiction.
- **14. Incidental Landing Areas:** Temporary helicopter landing sites used infrequently requiring minimal maintenance or upkeep.
- **15.Emergency Work:** Work required to resolve situations that present immediate threats to human life or to property regardless of ownership (36CFR251.50b)
- **16.Contract Administrator (CA)-** serves as the SDG&E Point of Contact (POC) with construction personnel and the project management team. Ensure construction work is in compliance with project requirements.

2. PROJECT DESCRIPTION

General location:

The Project includes the replacement of wood poles with steel poles and the partial undergrounding, relocation, or removal of power lines to increase fire safety and improve system reliability. The following sections discuss these activities in further detail.

Ownership	Fire Suppression Responsibiltiy	Emergency Contact	
LRA	San Diego County Fire Authority	911 or (XXX) XXX-XXXX	
FRA	U.S. Forest Service	911 or (XXX) XXX-XXX	
FRA	U.S. Bureau of Land Management	911 or (XXX) XXX-XXXX	
FRA	Bureau of Indian Affairs, Southern Ca. Agency	(XXX) XXX-XXXX	
	Campo Reservation Fire	911 or (XXX) XXX-XXX Heartland Dispatch	
	Rincon Fire	911 or (XXX) XXX-XXXX North Com Fire Dispatch	
SRA	CAL FIRE-Monte Vista Ranger Unit	911 or (XXX) XXX-XXXX	

Table 1: Fire Jurisdiction & Land Ownership

(DPA, Direct Protection Area, SRA, State Responsibility Area; FRA, Federal Responsibility Area; LRA, Local Responsibility Area)

Scope and Intent of Proposed Project:

The project entails replacing and modifying electrical transmission and distribution infrastructure. The tie lines and circuits will include, TL6923, TL625, TL626, TL629, TL6931, TL682, C78, C79, C157, C440, C442 and C449. The northern most line is TL682 which extends between the Rincon and Warners Substations. The southern most line is TL6923 which extends between the Barrett and Cameron Substations.

The pole-replacement component of the project will include replacing wooden transmission and distribution poles with new steel poles. The new steel poles will be direct bury, supported by concrete pier foundations, or micropile foundations, depending on design parameters for the specific pole sites. There will be wire stringing sites and guard structures used for installing new wire. Several staging/laydown yards will be utilized along the existing alignment, in the project area for equipment, material staging and project employee parking. The project may require helicopter work for pole removal, pole installation, and/or restringing due to the steep terrain and difficult to access locations featured in several work areas.

Project Timeframes:

This project is scheduled to begin in the 2nd quarter of 2016 and will involve working with energized lines. These lines may be re- energized nightly to ensure a high level of service and reliability to the SDG&E service territory. The last line is scheduled to be completed in 2020. Project timeframes may change and are dependent on multiple factors.

3. PROJECT FIRE RISKS AND FIRE PREVENTION MEASURES:

During the construction phase of the Project, SDG&E and its contractors will implement the fire prevention measures listed in the *Project Fire Prevention Matrices (Attachment 1&2)* which describes activities with potential fire risks. Those activities may take place both inside and outside the FTZ (Defined in ESP113.1) where areas of wildland fuels exist. The Project Fire Prevention Matrices are based on the Fire Risk & Fire Prevention Matrix (ESP113.1) and may contain additional fire prevention measures based on project specific risks.

During the construction phase of the project, the applicant shall implement ongoing fire patrols. The applicant shall maintain fire patrols during construction hours and for 1 hour after end of daily construction and hot work.

Project Activity Level (PAL) is a decision support tool designed to help fire and timber managers establish the level of industrial precaution for the following day. This tool utilizes outputs from the National Fire Danger Rating System (NFDRS). The PAL will be used when construction activities occur on lands owned by the USFS. A PAL for the following day can be obtained after 4:00pm by calling (XXX) XXX-XXXX and asking the Dispatcher for the PAL for the Fire Danger Rating Area where work will occur.

The Fire Potential Index (FPI) is a comprehensive assessment of fire risk, used by SDG&E as a tool for making operation & maintenance decisions related to fire prevention. The tool converts environmental, statistical, and scientific data into an easily understood forecast of short-term fire threat. The FPI will be used when construction activities occur off USFS owned land. The FPI is generated for a seven day forecast period for an assortment of geographic areas within the service territory. The official FPI for each SDG&E service district is posted at 6:00am (Refer to Attached Map for Service Districts).

Once construction begins, interpretations of fire risks and/or fire prevention measures shall be directed to the Project Fire Coordinator. New fire risks identified after Project initiation shall be added to the Project Fire Prevention Matrix with appropriate prevention measures determined by the Project Fire Coordinator.

4. MAJOR OPERATION WORKSITES (MOW):

The following precautions will take place at each major operations work area:

- MOW will be assessed by the contract administrator (CA) in consultation with an SDG&E Fire Coordinator for wildland fire risk prior to beginning operations at the site.
- Hazard reduction inside and around the perimeter of the MOW will be performed according to environmental specifications prior to activating the MOW.
 - Cut vegetation would either be chipped on site or removed and disposed of at an approved facility
- Other fire prevention measures may include regular watering to reduce fire potential danger.
- Smoking, welding and fueling of equipment will be done only in designated areas with appropriate fire protection measures in place.
- When additional fire tools (aside from fire tools in construction vehicles) are recommended by the SDG&E Fire Coordinator, a fire box or equivalent, shall be located on site and be accessible to all personnel. There shall be enough tools to outfit the average number of workers at that site. Fire tools are to be a combination of shovels, Pulaskis, McLeods and backpack pumps.
- Additional tools, equipment, and requirements identified during inspections will be documented in this fire plan and posted at the project field office.

5. ADDITIONAL PROJECT TOOLS & EQUIPMENT:

The following equipment <u>may</u> be required to be staged as proximate as possible to ongoing Project activities as determined by the CA. These items shall be strategically placed to afford the best opportunity to help to prevent ignitions and expeditiously extinguish any fire resulting from Project activities.

- Fire Patrol Vehicle with minimum of 150 gallons water and a firefighter.
- Water tender (any size), with at least 50' hose, and nozzle.
- Water tank (water buffalo) with at least 50 gallons of water.
- The Water Truck, trailer or portable tank shall contain a minimum of 150 gallons of water at the start of each work period; a combination straight stream-fog nozzle, and a minimum 300 feet of one inch fire hose; fire hose with nozzle closed shall be capable of withstanding 200 psi pump pressure without leaking, slipping of couplings, distortions, or other failures; nozzle discharge rating of six to 20 gallons per minute; a pump capable of delivering 23 gallons per minute at 175 pounds psi at sea level; power unit for pump shall have fuel for at least two hours operation, with ample transport available for immediate and safe movement of tank over roads serving the contract area; and shall be in good working order; pump outlet shall be equipped with 1-1/2 inch National Standard Fire Hose thread.
 - When Water truck, Trailer or Portable Tank is used for other operations, water level must not drop below 50 gallons or activity will stop until water source is replenished to 150 gallons.

6. AGENCY SPECIFIC REQUIREMENTS:

USFS & CPUC: The Project activities must comply with Title 14 of the California Code of Regulations; California Forest Practice Rules, Article 8, section 958 "Fire Protection", for the duration of the Project with particular attention to Chapter 4, Subchapter 4, 5, & 6. In addition the Project must comply with Public Resource Codes (PRC) 4427, PRC 4428, PRC 4431, and PRC 4442.

USFS: Requires a permit be issued for hot work (Cutting, Welding, Grinding,...) and notification be made to USFS Dispatch prior to the initiation of hot work on the day the hot work occurs

7. RED FLAG WARNINGS (RFW) AND OTHER CRITICAL FIRE DANGER DECLARATIONS (CFDD):

When there is a notice of a Red Flag Warning, the FPI will usually be "Extreme" (If the FPI does not display extreme for the event then the SDG&E Fire Coordinator will be consulted and at risk activities will follow the more restrictive measures). The RFW will be for a specific geographic area and time period. The SDG&E project manager, CA's, supervisors, and contractors will be responsible for insuring project personnel are notified of these events. It is also the responsibility of all supervisors to know and communicate the details of a RFW to their crews. At the end of the RFW, confirmation will be obtained from the Project Fire Coordinator or his designee who can be reached 24-hours at (XXX) XXX-XXXX that work can begin again and if any restrictions are imposed.

At times, critical fire danger declarations may be made by any jurisdictional fire department for a specific time period. As soon as these declarations are shared with the SDG&E Project Manager and CA, they will be communicated to project personnel. Restrictions and fire prevention measures will apply until the declarations are lifted.

During periods of Extreme FPI or when restricted by PALs - Work restrictions may be encountered (see Project Fire Prevention Matrix). Emergency work may be allowed to continue because they pose a greater fire risk if left in their current state. The CA will consult with the SDG&E Project Manager to get authorization to work in these situations and consult with Fire Coordination to identify additional fire prevention requirements. SDG&E will inform the CNF Utility Coordinator during work hours and CNF Dispatch after hours of emergency work.

8. TRAINING REQUIREMENTS FOR SDG&E & CONTRACT PERSONNEL

Prior to the preforming construction activities on the project all project construction personnel (SDG&E & Contractors) will receive training on Wildland Fire Prevention and Safety (ref. SDG&E ESP113.1). This training will be provided by a qualified instructor. Training will include:

- Fire safety and prevention
- Fire detection & reporting
- Small fire suppression
- Contents and requirements of the fire prevention plan

Project personnel shall carry at all times a laminated card listing pertinent telephone numbers for reporting fires and defining immediate steps to take if a fire starts. Information on contact cards shall be updated and redistributed as needed, and outdated cards destroyed, prior to the initiation of construction activities on the day the information change goes into effect.

Additionally, construction personnel shall receive an annual refresher as necessary.

9. TAILBOARDS, INSPECTIONS, REVIEW & COMPLIANCE

Construction supervisors will be responsible for reviewing the contents of the Fire Prevention Plan with construction personnel throughout the duration of the project. Daily safety tailboard sessions will include an assessment of the day's FPI level/PAL and discussion of the fire risk for the day.

The CA or designee shall perform periodic inspection of equipment and worksites to verify compliance with this plan. Compliance with the Fire Prevention Plan is mandatory. Monitoring compliance with this Plan is everyone's responsibility. The SDG&E Project management team including SDG&E Fire Coordinator, SDG&E CA's, and the contractor's construction management team may have the authority to shut down any operation that presents an inappropriate amount of fire risk or hazard until it can be properly addressed.

All noncompliance will be reported and documented immediately. Corrective actions may include temporary shutdown of some or all of the individual operations, additional tailboard trainings, additional oversite and management resources.

All fires shall be reported by the SDG&E Fire Coordinator, or designee, to the fire agencies with jurisdiction in the project area as soon as the fire is identified/discovered. The SDG&E Project Manager, CA, and fire coordinator shall also be immediately notified. The SDG&E Fire Coordinator or his designee can be reached at XXX-XXX-XXXX.

Fire Suppression Resource Inventory – In addition to 14 CCR (California Code of Regulations) 958.1(a), (b), and (c), SDG&E and its contractors will update in writing the 24-hour contact information and on-site fire suppression equipment, tools, and personnel list on a quarterly basis during proposed project construction and provide it to the Forest Service, BLM, BIA, SDCFA, and CAL FIRE.

10. COMMUNICATIONS PLAN

All construction crews and inspectors shall be provided with radio and/or cellular telephone access that is operational throughout the project area to allow for immediate reporting of fires. Communication pathways and equipment shall be tested and confirmed operational each day prior to initiating construction activities at each construction site. All fires shall be reported to the fire agencies with jurisdiction in the project area immediately upon discovery.

11. Helicopter Fire Prevention

When the Project requires the use of helicopters and involves landing or taking off in areas within or adjacent to wildland fuels special fire mitigations may be recommended by the SDG&E Fire Coordinator.

The additional fire mitigations may be recommended for helicopter operations are as follows:

- Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box available on major operations.
- On Incidental Landing Areas (ILA) adequate firefighting equipment shall be carried on the helicopter for the number of personnel working on the ground at those sites.
- Fueling safety plan- fueling will be done in an area clear of combustible material and follow the safety procedures outlined in the CNF Project Aviation Safety Plan.
- Identification of special tool and/or equipment requirements for each landing site where applicable.

For safety and other procedural information on SDG&E helicopter operations please refer to the CNF Project Aviation Safety Plan.

12. REFERENCES:

- SDG&E ESP 113.1
- SDG&E Aviation Operations Manual
- Project Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS)
 - o Volume 1: D.8 Fire and Fuels Management,
 - Mitigation Measure FF-1
- Spark Arrestor Guide: <u>http://www.fs.fed.us/t-d/programs/fire/spark/sag-index.html</u>
- California Forest Practice Rules:

http://www.fire.ca.gov/resource_mgt/downloads/2015%20FP%20Rulebook_with%20TRA%20No%2 01_Final.pdf

13. ATTACHMENTS:

- Attachment 1: Project Fire Prevention Matrix off CNF Land
- Attachment 2: Project Fire Prevention Matrix on CNF Land
- Attachment 3: District Map
- Attachment 4: SDG&E Wildland Fire Prevention & Fire Safety Plan (SDG&E ESP 113.1)
- Attachment 5: Worker Education Materials

Attachment 1 - Project Fire Prevention Matrix off CNF Land

PROJECT ACTIVITIES		FPI (Sites <u>not</u> on CNF land)				
ΑCTIVITY	ACTIVITY TOOLS AND EQUIP	NORMAL	ELEVATED	EXTREME and RFW		
If your activity does not fall into a specific category consult the fire prevention plan, ask your CA, or call SDGE fire personnel. It is your responsibility to know what mitigation tools are required for your activity		FPI Range of 1-11	FPI Range of 12-14	FPI Range of 15-17		
Privately Owned Vehicle (POV)	A privately owned vehicle used as transportation to a MOW (yard) and parking in a POV area. (Parking areas must have adequate clearance from combustible material)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)		
Project Vehicles	Company owned vehicles, Vehicles with company markings, and equipment (not POV's) (Parking areas must have adequate clearance from combustible material)	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher		
Fire Box	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.		
Helicopter Operations	Helicopter	Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box available on major operations. On Incidental Landing Areas (ILA's) adequate firefighting equipment shall be carried on the helicopter for the number of personnel working on the ground at those sites.	Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box available on major operations. On Incidental Landing Areas (ILA's) adequate firefighting equipment shall be carried on the helicopter for the number of personnel working on the ground at those sites.	Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box available on major operations. On Incidental Landing Areas (ILA's) adequate firefighting equipment shall be carried on the helicopter for the number of personnel working on the ground at those sites.		
Chain saw use	Chain saw (Spark Arrester Required)	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump a fully charged ZA:10B:C Fire Extinguisher within 50', There must be one shovel or a Fire extinguisher within 25'. Assign a spotter/swamper during operations	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump a fully charged 2A:10B:C Fire Extinguisher within 50', There must be one shovel or a fire extinguisher within 25'. Assign a spotter/swamper during operations	Activity Not Permitted		
Gasoline Powered Tool Fueling (Chain saw, Weed Eater, chipper, generator)	Gas can/truck	Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.	Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.	Activity may take place only in a cleared MOW; Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.		
Combustion engines	Generators, Compressors, any piece of equipment with a combustion engine	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, fully charged 2A:10B:C Fire Extinguisher within 50'; While operating equipment must have 5' of clearance on all sides and no combustible material underneath; ensure equipment that requires a spark arrestor has it installed properly	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, fully charged 2A:10B:C Fire Extinguisher within 50'; While operating equipment must have 5' of clearance on all sides and no combustible material underneath; ensure equipment that requires a spark arrestor has it installed properly.	Activity may take place only in a cleared MOW; 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, fully charged 2A:108:C Fire Extinguisher within 50'; While operating equipment must have 5' of clearance on all sides and no combustible material underneath; ensure equipment that requires a spark arrestor has it installed properly		
Chipping	Chippers, Grinders	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:108:C Fire Extinguisher within 50 feet, 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	Activity Not Permitted		
Hot Work: Welding or Grinding	Generators, Welder, Grinder, CAD Weld equipment	All welding, cutting and other hot work will follow a hot work program that will at minimum meet the standards set in NFPA 51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50; 10' of clearance, wet down surrounding area, A designated "Fire Patrol" must be present during work and 1 hour after hot work is complete	51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 10' of clearance, wet down	Activity Not Permitted		
Aerial Hot work	Any hot work that occurs with the welder's feet above ground level. Hot work should not be preformed with a tool over a crew members head.	A site specific plan will be discussed and implemented when hot work is required to be performed higher than 6 feet off the ground. To the best of the ability of the project personnel, hot work should be accomplished at ground level.	work is required to be performed higher than 6 feet off the	Activity Not Permitted		
Removal and/or installation of fencing and/or berms	Hand tools, Loader with fence post installer/remover	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	Activity Not Permitted		
Removal and/or installation of fencing and/or berms	Tractor, Ditch Witch	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	Activity Not Permitted		
Grading, Road Pioneering, Road Maintenance, Scraping and Trenching	Bulldozer, Excavator, Scraper, Heavy equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, fully charged 2A:10B:C Fire Extinguisher within 50 feet, 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, fully charged 2A:10B:C Fire Extinguisher within 50 feet, 150 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	Activity Not Permitted		

	PROJECT ACTIVITIES		FPI (Sites <u>not</u> on CNF land)	
ΑCTIVITY	ACTIVITY TOOLS AND EQUIP	NORMAL	ELEVATED	EXTREME and RFW
Movement of Equipment with Steel tracks (This applies to equipment that is traveling on an access road, driveway and/or a paved road. This does not apply to equipment operating within a site/pad or MOW)	Steel Track Equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	Activity Not Permitted
Foundation Drilling	Drill, Forklift, Excavator	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	Activity Not Permitted
Structure Erection/Pole Setting	Crane, Excavator, Forklift	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:108:C Fire Extinguisher within 50 feet	Activity Not Permitted
Foundation Pouring	Concrete Trucks, Generators, Hand tools, etc.	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	Activity Not Permitted
Erosion Control (BMP)	Hand tools only	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shove), 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:108:C Fire Extinguisher within 50 feet, 100 gallons of water with pump and hose on site. Area is wet down sufficiently to prevent ignitions, Dedicated Fire Patrol Required
Erosion Control	Heavy equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:108:C Fire Extinguisher within 50 feet, <u>150 gallons</u> of water with pump and hose on site. Area is wet down sufficiently to prevent ignition.	Activity Not Permitted
Pad Clearing	Bulldozer, Excavator, hand tools, Steel Track equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', 100 gallons of water with pump and hose on site. Area is wet down sufficiently to prevent ignitions	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:108:C Fire Extinguisher within 50 feet, <u>150 gallons</u> of water with pump and hose. Area is wet down sufficiently to prevent ignition.	Activity Not Permitted
Vegetation Clearing	Hand tools (If a chain saw is used, see chain saw section)	1 round point shovel, 1 Pulaski and 1 (5) gallon backpack pump A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski and 1 (5) gallon backpack pump A fully charged 2A:10B:C Fire Extinguisher within 50 feet	Activity Not Permitted
General Construction activities	Hand tools only	1 round point shovel, 1 Pulaski and 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski and 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher within 50 feet	See Specific activity for required mitigation measures
Monitoring and Assessment of: Vegetation, Wildlife, Cultural, etc.	Recording data and taking pictures	No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times	No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times	No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times
Dust abatement: Wetting the sites, roads or any other area on the ROW	Water Trucks	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher assigned to truck	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump , a fully charged 2A:10B:C Fire Extinguisher assigned to truck	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher assigned to truck
Smoking	Cigarettes, Cigars, Electronic Cigarettes	Smokers may only smoke in designated smoking areas of a MOW, with an ash can, 10' diameter circle of bare mineral soil, and a designating sign.	Smokers may only smoke in designated smoking areas of a MOW, with an ash can, 10' diameter circle of bare mineral soil, and a designating sign.	Activity Not Permitted
Conductor Replacement (work with de- energized lines)	Replacement of conductor, wire spreading, wire pulling	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, 1 fully charged 2A:10BC fire extinguisher within 50', designated Fire Patrol	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, 1 fully charged 2A:10BC fire extinguisher within 50'. <u>Dedicated</u> Fire Patrol and 150 gallons of water and equipment for it's use.	Not Permitted
Conductor Replacement (work with energized lines)	Replacement of conductor, wire spreading, wire pulling	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, 1 fully charged 2A:10BC fire extinguisher within 50', designated Fire Patrol	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, 1 fully charged 2A:10BC fire extinguisher within 50'. <u>Dedicated</u> Fire Patrol and 150 gallons of water and equipment for it's use.	Not Permitted
OTHER ACTIVITY/EQUIPMENT REQUIREMENTS:				
	pproved spark arresters; Engines used to provide motive power for trucks, tractors, buses, ar		muffler; Turbocharged engines are exempt.	
	eet the requirements. If the work site is more than 50' from the vehicle the tools will need to l			
	nent or material and leave (i.e. Water tankers, postal workers); these vehicles do not need to	be equipped with fire tools but drivers need to follow all SWEAP mandated procedures while a	accessing the site. If vehicle is just moving from one area of the project to another area o	t the project it is a project vehicle and will have the standard fire tools.
Blasting: (or any use of explosives) requires a separate fire pla IMPORTANT CONTACT NUMBERS	an that may require additional mitigations			
	e Marshal: (XXX) XXX-XXXX	On-Duty Fire Coordinator: (XXX) XXX-XXXX		
major rejects base. (AAA) AAA-AAAA Project Hin	e mulanui, ponaj adazadad	on bucy rise coordinator. (AAA) AAA AAAA		

Attachment 2: Project Fire Prevention Matrix on CNF Land

Project Activities		PAL Level (Sites on CNF Land)					
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	Α	В	с	D	Ev	E and RFW
If your activity does not fall into a specific category consult the fire prevention plan, ask your CA, or call SDGE fire personnel. It is your responsibility to know what mitigation tools are required for your activity	Expected tools for activity; If you use multiple tools or are doing multiple activities you must consult multiple boxes in the matrix. If a vehicle containing the appropriate tools for the activity is parked within the required distance for the activity, those tools meet the requirements of the fire prevention mitigation measure			an be obtained af PAL for the Fire D			-
Privately Owned Vehicle (POV)	A privately owned vehicle used as transportation to a yard and parking in a POV area. (Parking areas must have adequate clearance from combustible material)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)	No tools required (If the vehicle is brought out to sites it must have the same tools as other project vehicles)
Project Vehicles	Company owned vehicles, Vehicles with company markings, and equipment (not POV's) (Parking areas must have adequate clearance from combustible	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher		1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher
Fire Box	material) When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.	When/Where required the minimum contents of a fire box shall be 3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5 gallon backpack pump.
Helicopter Operations	Helicopter	Helicopter staging areas will be treated similar to other staging	Helicopter staging areas will be treated similar to other staging	Helicopter staging areas will be treated similar to other staging	Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box available on major operations. On Incidental Landing Areas (ILA's) adequate firefighting equipment shall be carried on the helicopter for the number of personnel working on the ground at those sites.	Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box	Helicopter staging areas will be treated similar to other staging areas with enough fire equipment for personnel on site or fire box available on major operations. On Incidental Landing Areas (ILA's) adequate firefighting equipment shall be carried on the helicopter for the number of personnel working on the ground at those sites.
Chain saw use	Chain saw (Spark Arrester Required)	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', There must be one shovel within 25' or a fire extinguisher in the operators immediate possession. Assign a spotter/swamper during operations	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', There must be one shovel within 25' or a fire extinguisher in the operators immediate possession. Assign a spotter/swamper during operations	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', There must be one shovel within 25' or a fire extinguisher in the operators immediate possession. Assign a spotter/swamper during operations	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', There must be one shovel within 25' or a fire extinguisher in the operators immediate possession. Assign a spotter/swamper during operations	Activity Not Permitted	Activity Not Permitted

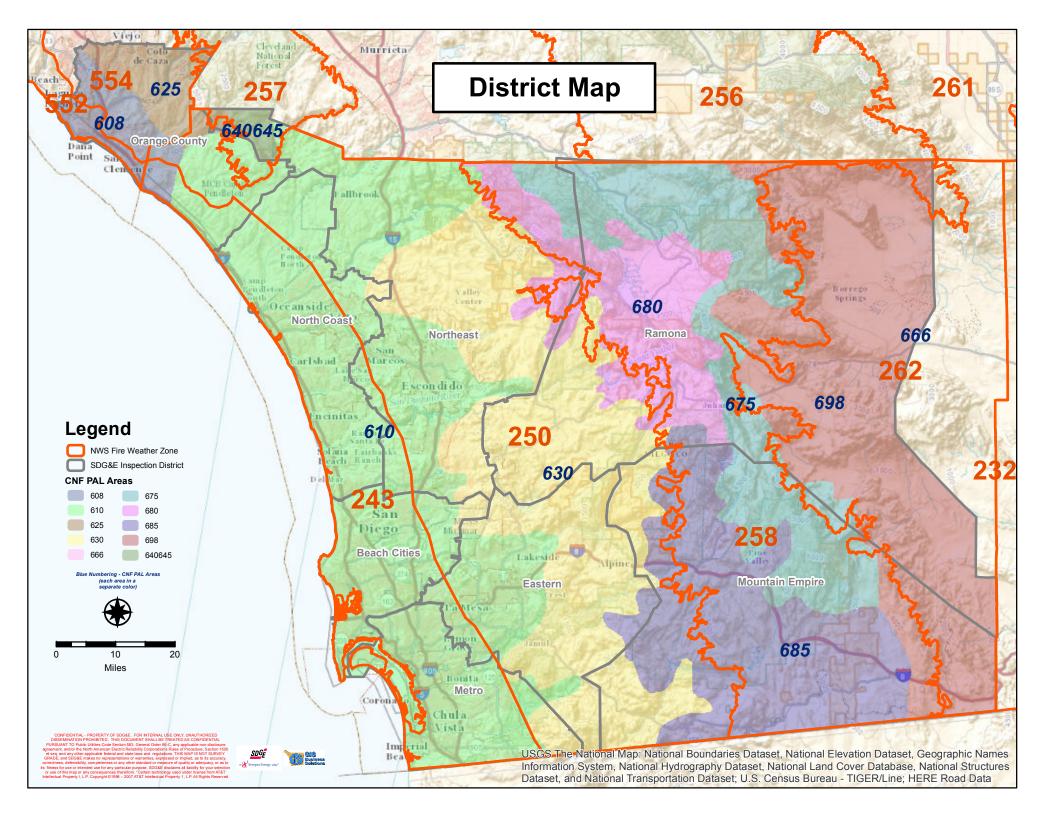
Project	Activities		PAL Level (Sites on CNF Land)						
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	Α	В	с	D	Ev	E and RFW		
Gasoline Powered Tool Fueling (Chain saw, Weed Eater, chipper, generator)	Gas can/truck		Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.	minimum of 10' of clearance,	Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.	Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.	Equipment may be refueled after cooling and in an area with a minimum of 10' of clearance, Shovel and Fire extinguisher within 25'.		
Combustion engines	Generators, Compressors, any piece of equipment with a combustion engine	equipment must have 5' of clearance on all sides and no	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; A fully charged 2A:10B:C Fire Extinguisher; While operating equipment must have 5' of clearance on all sides and no combustible material underneath; ensure equipment that requires a spark arrestor has it installed properly.	(5) gallon backpack pump within 50'; A fully charged 2A:10B:C Fire Extinguisher; While operating equipment must have 5' of	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; A fully charged 2A:10B:C Fire Extinguisher; While operating equipment must have 5' of clearance on all sides and no combustible material underneath; ensure equipment that requires a spark arrestor has it installed properly.	Activity may take place only with unit mounted on the vehicle, on roadway. 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50'. While operating equipment must have 10' of clearance on all sides. Ensure equipment that requires a spark arrestor has it installed properly. Designated Fire Patrol Required	Activity may take place only in a cleared MOW; 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; while operating equipment must have 10' of clearance on all sides and no combustible material underneath; ensure equipment that requires a spark arrestor has it installed properly. <u>Designated Fire Patrol Required</u>		
Chipping	Chippers, Grinders	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	charged 2A:10B:C Fire Extinguisher within 50 feet, 100 gallons of	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions.	Activity Not Permitted	Activity Not Permitted		
Hot Work: Welding or Grinding	Generators, Welder, Grinder, CAD Weld equipment	work will follow a hot work program that will at minimum meet the standards set in NFPA 51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 10' of clearance, wet down surrounding area, A designated "Fire Patrol" must be present during work and 1 hour after hot	All welding, cutting and other hot work will follow a hot work program that will at minimum meet the standards set in NFPA 51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 10' of clearance, wet down surrounding area, A designated "Fire Patrol" must be present during work and 1 hour after hot work is complete	work will follow a hot work program that will at minimum meet the standards set in NFPA 51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50';	All welding, cutting and other hot work will follow a hot work program that will at minimum meet the standards set in NFPA 51B, CFC Chapter 35 and have 1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 10' of clearance, wet down surrounding area, A dedicated "Fire Patrol" must be present during work and 1 hour after hot work is complete	Activity Not Permitted	Activity Not Permitted		
Aerial Hot work	Any hot work that occurs with the welder's feet above ground level. Hot work should not be preformed with a tool over a crew members head.	the ability of the project	A site specific plan will be discussed and implemented when hot work is required to be performed higher than 6 feet off the ground. To the best of the ability of the project personnel, hot work should be accomplished at ground level.	discussed and implemented when hot work is required to be performed higher than 6 feet off the ground. To the best of the ability of the project personnel,	A site specific plan will be discussed and implemented when hot work is required to be performed higher than 6 feet off the ground. To the best of the ability of the project personnel, hot work should be accomplished at ground level.	Activity Not Permitted	Activity Not Permitted		

Project Activities			PAL Level (Sites on CNF Land)					
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW	
Removal and/or installation of fencing and/or berms	Hand tools, Loader with fence post installer/remover	1 round point shovel, 1 Pulaski, 1 t (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	Activity Not Permitted	
Removal and/or installation of fencing and/or berms	Tractor, Ditch Witch	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	Activity Not Permitted	
Grading, Road Pioneering, Road Maintenance, Scraping and Trenching	Bulldozer, Excavator, Scraper, Heavy equipment,	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	within 50 feet, 100 gallons of	within 50 feet, 150 gallons of	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 150 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	Activity Not Permitted	Activity Not Permitted	
Movement of Equipment with Steel tracks		1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50'; 50 gallons of water with pump and hose; Escort in a different vehicle following the equipment	Activity Not Permitted	
Foundation Drilling	Drill, Forklift, Excavator	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	(5) gallon backpack pump, A fully	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	(5) gallon backpack pump, A fully	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 50 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions, <u>Dedicated Fire Patrol</u> <u>Required</u>	Activity Not Permitted	
Structure Erection/Pole Setting	Crane, Excavator, Forklift	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	(5) gallon backpack pump, A fully			1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	Activity Not Permitted	
Foundation Pouring	Concrete Trucks, Generators, Hand tools, etc.	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet		(5) gallon backpack pump, A fully	(5) gallon backpack pump, A fully	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 50 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions, Dedicated Fire Patrol Required	Activity Not Permitted	

Project	Activities	PAL Level (Sites on CNF Land)					
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW
Erosion Control (BMP)	Hand tools only		(5) gallon backpack pump, A fully		(5) gallon backpack pump, A fully	(5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 50 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions, Dedicated Fire Patrol	water with pump and hose on site,
Erosion Control	Heavy equipment	charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	50°, 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 150 gallons of water with pump and hose.		Activity Not Permitted
Pad Clearing	Bulldozer, Excavator, hand tools, Steel Track equipment	charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump within 50', 100 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions	1151 gallon hackhack numn within	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, 150 gallons of water with pump and hose. Area is wet down sufficiently to prevent ignitions	Activity Not Permitted	Activity Not Permitted
Vegetation Clearing	Hand tools (If a chain saw is used, see chain saw section)		(5) gallon backpack pump, A fully	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet	Activity Not Permitted
General Construction activities	Hand tools only	(5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	(5) gallon backpack pump, A fully	charged 2A:10B:C Fire Extinguisher	(5) gallon backpack pump, A fully	See Specific Activity	See Specific Activity
Monitoring and Assessment of: Vegetation, Wildlife, Cultural, etc.	Recording data and taking pictures	Project vehicles still require tools	No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times	No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times	No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times		No tools required (Reminder: Project vehicles still require tools at all times); Communications must be maintained at all times
Dust abatement: Wetting the sites, roads or any other area on the ROW	Water Trucks	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher backpump assigned to truck	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher backpump assigned to truck	charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher backpump assigned to truck	charged 2A:10B:C Fire Extinguisher	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher backpump assigned to truck
Smoking	Cigarettes, Cigars (Electronic Cigarettes can be used anywhere)			designated smoking areas with an ash can, 10' diameter circle of bare			Activity Not Permitted

Project /	Activities			PAL Level (Site	es on CNF Land)		
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW
	Replacement of conductor, wire spreading, wire pulling	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50'	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50'	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50', Designated Fire Patrol assigned with minimum 150 gallons	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50', Designated Fire Patrol assigned with minimum 150 gallons	Activity Not Permitted	Activity Not Permitted
Conductor Replacement (working with energized lines)	Replacement of conductor, wire spreading, wire pulling	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50'	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50'	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50', Dedicated Fire Patrol assigned with minimum 150 gallons	1 round point shovel, 1 Pulaski, 1(5) gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher withing 50', Dedicated Fire Patrol assigned with minimum 150 gallons	Activity Not Permitted	Activity Not Permitted
OTHER ACTIVITY/EQUIF	PMENT REQUIREMENTS:						
Spark Arresters: All internal co	mbustion engines shall have app	roved spark arresters; Engines	used to provide motive power for	or trucks, tractors, buses, and pa	ssenger vehicles, except motorcy	cles, are exempt if the exhaust s	system is equipped with a
Drive in sites: Standard fire mit	igation tools on vehicles will me	et the requirements. If the work	site is more than 50' from the v	rehicle the tools will need to be r	noved from the vehicle to the site	2.	
			•	hese vehicles do not need to be o	equipped with fire tools but drive	rs need to follow all SWEAP mar	ndated procedures while
Blasting: (or any use of explosiv	es) requires a separate fire plan	that may require additional mitig	gations				
IMPORTANT CONTACT NUMBERS Major Projects Base: (XXX) XXX-XXX	X	Project Fire Marshal: (XXX) XXX-XXX	ΧX				

Attachment 3: District Map



Attachment 4: SDG&E Wildland Fire Prevention & Fire Safety Plan (SDG&E ESP 113.1)



Electric Distribution Engineering

PROJECT CHECKLIST

Use 'Tab Key' to navigate form

Date:

26 July 2016

Originator:

Hal Mortier

Project Title:

SDG&E Operations and Maintenance Wildland Fire Protection Plan

The attached document pertains to:

Electric Standard Practice: 113.1

Synopsis of change (for distribution cover sheet)

 \boxtimes

See attached 'NEW / REVISED' cover sheet.

Sponsoring Department:

Other (Click on title to select one from the drop-down menu)

If Other, Describe: SDG&E Emergency Management

Individuals Involved in Development and/or Revision:

Training Requirements: (Describe how the training will be conducted)

All C&O Managers and O&E Managers review this revised standard with your personnel at your next Safety Meeting.

To be completed within 30 days of "Effective Date".

Reviewed By: Hal Mortier

Approved By: Maurizio De Julio

ESP – 113.1 (Revised)

Electric Standard Practice – 113.1 SDG&E Operations and Maintenance Wildland Fire Prevention Plan

Electric Distribution Engineering has published this standard with revisions and additions made by the SDG&E Fire Program Manager.

Changes and Additions highlighted in **YELLOW**

If you have any questions regarding this Standard Practice, please contact:

Hal Mortier at (XXX) XXX-XXXX or XXXX



	SDGE		No.
A B	empra Ene	rgy utility ELECTRIC STANDARD PRACTICE	Page 1 of 15
DEPARTME		DIVISION	EFFECTIVE DATE
	<u>IS. & D</u>	ISTRIB. ENGINEERING DISTRIBUTION ENGINEERING	JULY 26, 2016
	IERAL	PRACTICES	
SUBJECT		ERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION	Ν ΡΙ ΔΝ
000			
1.0	PURPO	SE	
	1.1	Southern California presents a dangerous natural wildland fuel scenario potential. The period for active fire conditions can exist all year long de and other dynamic weather factors. The fall months and at times exten historically host the region's largest fires. Extended dry periods can bri critical fire conditions essentially any time of the year. SDG&E facilities can present a potential wildland fire ignition risk which must be minimiz possible. In the event a fire occurs, we must also be equipped to supp potentially preventing a major fire. Most importantly, we must provide t necessary to keep our employees safe while working in the wildland are system Operations & Maintenance work and can be used for low comp when additional mitigation is not required (see 4.7 SDG&E PROJECT S The intent of this document is to formalize procedures and routine prace Assist SDG&E employees in their understanding of fire prevention	pending on rainfall totals ding into early winter ng us into or back into a, equipment, and activities ed to the extent reasonably ress small fires, thus he resources and training eas. This plan is for all lexity Construction projects SPECIFIC FIRE PLANS). tices that will: and to improve their ability
		to prevent the start of any fire. The emphasis will be on wildland fi critical times of the year when the fire risk is high.	
	<mark>1.1.2</mark>	Set standards for fire tools and equipment to be present in vehicle will assist with rapid response to small fires in the event one shou	
	1.1.3	Incorporate State, Federal, and local requirements into our standa provide compliance with rules and regulations on a daily basis no place. This would include, but not be limited to: pertinent laws, Fo Regulations, and "Special Use Permit" or "Right of Way" fire relate	matter where work is taking rest Standard Practice
	1.1.4	Define or reference restrictions mandated by "Red Flag Warnings" other unique fire danger scenarios. Provide the means for determ are in effect, what activities they prohibit, the precise locations to v the notification procedures for all affected employees and contract	ining when these restrictions which they apply; and identify
	<mark>1.1.5</mark>	Ensure that our employees and contractors have positive commu and initiating assistance. Dialing 911 is the primary means for	
	1.1.6	Discuss procedure to identify when a Construction project specific the process for developing the document.	
	1.1.7	Share some common sense practices, with regards to fire safety, t activities to reduce the risk of fires and to prevent injury to employe	
	1.1.8	Introduce and require the use of the "Fire Potential Index" to detern risk mitigation measures are advised or required.	mine when additional fire
2.0	APPLIC	ABILITY	

2.1 This applies to SDG&E field personnel who will work in the wildland areas of the service territory. This also includes Distribution and Transmission operating personnel who will be involved with field personnel in regards to safety, system reliability and/or restoration. Contractors performing work for SDG&E will be expected to comply with this Standard Practice as it relates to their activities.

ISSUED BY	APPROVED BY
HAL MORTIER	MAURIZIO DE JULIO



No. Page 2 of 15

	DEPARTMENT DIVISION EFFECTIVE DATE								
TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016 SECTION SECTION </td									
GEN	GENERAL PRACTICES SUBJECT TITLE								
	SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN								
3.0	DEFINI	TIONS							
	3.1	"At Risk" Activities: Activiti	es that present	t a risk of igniting a wildfire					
	3.2	Wildland Areas: This term refuels available for ignition.	efers to any ar	ea within the SDG&E servi	ce territory that has wildland				
	3.3	Fire Threat Zone (FTZ): This combination of potential fire to established practices within the certain construction practices	behavior (fuel r he FTZ on hov	ank) and expected fire free v SDG&E constructs facilit	quency. SDG&E has ies and also determines				
	3.4	represent the zones of greater topography, wind, and system labeled with the appropriate y the Fire Threat Zone). The H	SDG&E High Risk Fire Areas (HRFA): This area will be an assortment of GIS polygons that epresent the zones of greatest concern within the SDG&E service territory, blending fuels, opography, wind, and system information. (The areas can change annually and the map will be abeled with the appropriate year, "SDG&E 20XX Highest Risk Fire Area" and is always a subset of he Fire Threat Zone). The HRFA helps to determine how SDG&E operates the electric system, as a function of weather conditions. See attachment 1.						
	3.5	California is considered to be	Fire Season: Fire season is no longer officially designated by the wildland fire agencies. California is considered to be in fire season on a yearlong basis. CAL FIRE adjusts its staffing patterns as fire conditions moderate or escalate and this can be used as an indicator of potential fire activity.						
	3.6	Fire Potential Index (FPI) (1 for making operation & main environmental, statistical, and threat. The index is generate areas within the service territ FPI is used for work activities (Normal, Elevated, or Extrem	tenance decisi d scientific data d for a seven c ory. The 7-day s. The FPI is u	ons related to fire preventi a into an easily understood lay forecast period for an a y forecast is used for plann sed to determine the fire p	on. The tool converts I forecast of short-term fire assortment of geographic hing purposes while the daily				
	3.6.1	activities can take place mitigation, as long as ba the baseline fire equipm	Normal Fire Potential (1-11): It is considered "Normal" when the FPI is green. All O&M activities can take place in the wildland areas of the service territory without additional risk mitigation, as long as baseline fire equipment is available as prescribed in this plan. Note: the baseline fire equipment requirements meet or exceed all local, state, & federal requirements for working in the wildland areas.						
	3.6.2	Elevated Fire Potential (12-14): It is considered "Elevated" when the FPI is either yellow or orange. Certain "at risk" O&M activities (as identified in the matrix, attachment 2) will require additional risk mitigation (as prescribed in the matrix, see attachment 2) to perform those work activities.							
	3.6.3 Extreme Fire Potential (15-17): It is considered "Extreme" when the FPI is red. No "at risk" activities should be conducted except for those activities which if, left undone present a greater risk than that involved with their accomplishment. Consultation with the On-duty Fire Coordinator is required to help make that determination and identify additional mitigation required to reduce risk.								
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ELECTRIC STANDARD PRACTICE

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GENERAL F	PRACTICES							
	ERATIONS AND	MAINTE	NANCE WILDLAND FIRE PREVENT	TION PLAN				
			The National Weather Service will declar ne following criteria:	re a RFW when conditions are				
3.7.1	frequent gus (based on w	ts equal to nd/relative	% or less with sustained winds equal to o or greater than 35 mph for a period of 6 h humidity) will be considered "Extreme" o period and have the same restrictions des	hrs or more. This RFW perating condition regardless				
3.7.2	significantly inland and m Meteorology	wet fuels th ountain zo and Fire C	htning event that is not accompanied by on that have been identified as critically dry. ones. This RFW (based only on dry lightr coordination to determine the appropriate ns, and Grid and Dist. Ops. will notify fiel	This is common within the ning) will be assessed by operating condition related to				
	only applies to we each crew memb	Toject Activity Level (PAL): This term is specific to the Cleveland National Forest (CNF) and ally applies to work within the boundaries of the CNF. When conducting work on the CNF it is ach crew member's responsibility to know the PAL level and adhere to any additional work strictions or mitigation measures.						
3.9	Fire Tools:							
3.9.1	Shovel: star	dard round	d point shovel with overall length of at lea	ist 46".				
3.9.2	Pulaski: an	axe-like fire	e hand tool used for cutting, chopping or	grubbing.				
3.9.3	McLeod: a f	re hand to	ol used for raking and scraping.					
3.9.4	extinguishing	g Class A (portable 5 gallon water pack with hose ar common combustibles) fires and primarily s or stainless steel canisters.					
3.9.5	equipment w	hen neces	d in a staging area or worksite to supplen sary due to excessive work activity. It ge pack pumps as deemed appropriate.					
	activities or stagir sites are typically	ig of resou large in siz	ea: It will be considered a major operation rces will be concentrated in and out of a second include but are not limited to const are and include but are not limited to const are area where construction work will be c	staging facility. These work truction yards, fly yards,				
3.11	Fire Patrol:							
3.11.1	accountabilit	y for fire pr	ol" is a member of a work crew assigned revention, risk mitigation, early detection one occur. This can be accomplished co	of fires, and rapid				
3.11.2			I" is a person(s) assigned the responsibili on, early detection of fires, and rapid exti uty while serving as a dedicated Fire Pat	inguishment should one occur.				

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SDG&E OP	PERATIONS AND MAINTE	NANCE WILDLAND FIR	<u>E PREVENTIC</u>			
3.12	SDG&E Fire Coordinator (emergency service agencies incidents. The FC will help t and represent the utility nee	for the utilities for everydate emergency service age	y operations as ncies obtain thei	well as emergency		
3.13	SDG&E Incident Commander (IC): SDG&E will follow Incident Command System protocols on all emergency incidents. SDG&E will positively identify a single point of contact for all SDG&E resources (people and equipment) on any emergency incident. The appropriate line authority will identify who the SDG&E IC will be on moderate or complex incidents. "First- in" supervisor will generally be the IC on low complexity incidents. The IC will coordinate SDG&E activities with the overall Incident Commander, usually a jurisdictional fire chief.					
3.14	Operations & Maintenance SDG&E facilities.	(O&M): O&M refers to po	st construction c	are and maintenance of		
4.0 <u>PROCE</u>	EDURE					
4.1	General: SDG&E personnel will be committed to the following three step process for reducing the fire risk and exposure involved with potential wildland fires related to our work activities or equipment;					
4.1.1	Fire Prevention: all work activities taking place in the wildland areas of our service territory will be assessed with regard to fire risk during standard safety tailboard sessions. Those activities that pose risk and can be excluded will be. Those that cannot be eliminated will incorporate appropriate mitigation measures to reduce the risk where possible, and in those cases where all risk cannot be eliminated the following steps will be in place.					
4.1.2	Immediate or Early Fire Detection: SDG&E enhances the ability of its crews to detect fire at its earliest stages by assigning designated (co-lateral duty) and dedicated Fire Patrols (sole duty) as well as training all personnel to establish good situational awareness during "Normal", "Elevated", and "Extreme" operating conditions.					
4.1.3	Rapid Extinguishment: prescribed fire tools and equipment will be available within 50' of worksite and immediately available for rapid extinguishment of any ignition.					
4.2	Tools & Equipment: When working in the FTZ (identified on Attachment 1); the following tools and equipment are required as a minimum and will be carried on the vehicles as described. If work is in a wildland area outside the FTZ it is recommended you use these same standards. This does not apply to transient traffic driving on primary road beds through the wildland areas. These items will meet the California Forest Practice Rules; Public Resource Code Division 4, Chapter 6. Making this equipment available at your work sites will also meet the majority of the requirements mandated by the wildland fire agencies within the company service territory. Some additional project specific or weather specific requirements may be necessary and will be					
	discussed in the following se 50' from the vehicle locati vehicle and staged at the	ction of this plan. Please on, the mandated equipn	note that if your	work project is over		
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4.2.1	Passenger Vehicles (performing work in the wildland areas):						
4.2.1.1	.1 1 round point shovel with overall length of at least 46"						
4.2.1.2 1 serviceable fire extinguisher, minimum U.L. rated "2 BC"; rating found on fire extinguisher label (a "2" rated extinguisher will put out approx. 2 sq. ft. of combustible material and BC indicates it will work on flammable liquids and is non-conductive for electrical fires)							
4.2.2	Trucks & 4 Wheel Drive	Vehicles;					
4.2.2.1	1 round point shove	el with overall length of at least 46"					
4.2.2.2	1 Pulaski						
4.2.2.3	1 (5) gallon backpa	ck pump					
4.2.3	Heavy Machinery or Equipment (including tub grinders, whole tree chippers, drilling rigs, tractors, etc.);						
4.2.3.1	1 round point shovel with overall length of at least 46"						
4.2.3.2	1 Pulaski						
4.2.3.3	1 (5) gallon backpa	ck pump					
4.2.4	Chain Saw Use;						
4.2.4.1	1 shovel within 25 f	eet of the chainsaw operation with unrestri	cted access to the tool.				
4.2.4.2	1 serviceable UL ra	ated 2BC fire extinguisher in their immediat	e possession.				
4.2.5 Major Operations Work Area (When vehicle equipment does not meet the needs of the work area a Fire Box or equivalent should be located on site and be accessible to all personnel an there should be enough total tools to outfit number of personnel on scene);							
4.2.5.1	1 (5) gallon backpa	ck pump					
4.2.5.2	2 Pulaskis						
4.2.5.3	2 McLeod fire tools						
4.2.5.4	Round point shove	ls 46" (enough to outfit remaining personne	el)				
4.3 Fire Risk & Mitigation Matrix: The following matrix is designed to blend the fire risk associated with a specific work activity with the fire potential index for the day to establish the proper fire prevention measures required in each scenario. Most of the work activities can be done daily simply by having the required equipment from section 4.2 available, serviceable, and proximate to work site. Some activities involve more risk and may require additional mitigation measures. The fire potential is determined by the daily Fire Potential Index. Green on the FPI is considered Normal Fire Potential. Under Normal the baseline tool & equipment requirements from section 4.2 suffice, except for specifically noted exceptions. Elevated Fire Potential is when the FPI is in the yellow/orange range and certain work activities may require additional mitigation measures in order to proceed with the work; again refer to matrix. The supervisor responsible for the work activity will document how the additional mitigation will be met for the day's activities. This can be done in conjunction with normal tailboard documentation or as separate documentation.							

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Extreme Fire Potential is the red on the FPI and most work activities will cease, except where not performing the work creates a greater risk than doing so. In those cases where work will be done, consult with On-duty Fire Coordinator ((XXX) XXX-XXX) and check matrix to see if additional mitigation is required. The supervisor responsible for the work activities will document that work has in fact ceased or why it was acceptable to continue. If Fire Coordination is consulted they too will document when a joint decision to continue work is made.						
	Normal	Elevated	Extreme			
	< 12	12-14	15-17			

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		FIRE R	ISK & MITIGATION				
th Tr to Pa or	hat it cannot, his assumes work site. <i>N</i> Patrol is comm nly the work	vity described can be perfor or by meeting the minimu the baseline tool requiren Note; a "designated" Fire I nitted to fire prevention du where not performing the or special mitigation requi	m additional mitigation nents from section 4.2 Patrol can have co-late uties and responsibilitie work creates a greater	n requirements indica are available, service aral duties, whereas as. The criterion for E	ted for that level. eable, and proximate a "dedicated" Fire EXTREME is to do		
			NORMAL	ELEVATED	EXTREME		
	/ork ctivity	Work Activity Description	Operating Conditions	Operating Conditions	Operating Conditions		
		s, Inspections					
	Vehicle travel	On paved roads or improved roads with no vegetation on roadbed	~	4	~		
		Off road vehicle travel		Must designate a Fire Patrol	Permitted only for work that meets the extreme criteria		
	Vehicle travel	and un-maintained roadbeds	4	(Document)	and must have a dedicated Fire Patrol		
Ir			✓		dedicated Fire		

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EFFECTIVE DATE DEPARTMENT DIVISION TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016 SECTION **GENERAL PRACTICES** SUBJECT TITLE SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN Equipment Maintenance Conducted on existing Insulator access roads with Not Permitted Insulator Wash Rig Washing (1,000 gal.) Mechanical Permitted only for replacement of system work that meets the equipment; i.e. Must designate a extreme criteria and Equipment insulators, fuses, etc. Fire Patrol Replacement must have a ON paved roads or (Document) dedicated Fire Patrol improved roads with no vegetation on roadbed Mechanical Permitted only for replacement of system work that meets the equipment; i.e. Must designate a Equipment extreme criteria and insulators, fuses, etc. Fire Patrol Replacement must have a Off road vehicle travel (Document) dedicated Fire Patrol and on unmaintained roadbeds Replacement of conductor with all Must designate a Conductor activities conducted ON Fire Patrol Not Permitted Replacement paved roads or (Document) improved roads with no vegetation on roadbed Replacement of Must have conductor with all dedicated Fire activities conducted Off Patrol and 150 gal. Conductor Not Permitted Replacement of water and road vehicle travel and on unmaintained equipment for its roadbeds use Replacement of existing power pole ON paved Must designate a Pole roads or improved Fire Patrol Not Permitted **Replacement** roads with no (Document) / Pole hole vegetation on roadbed digging Must designate a Fire Patrol Replacement of existing power pole Off road (Document) and Pole Not Permitted Replacement vehicle travel and on 150 gal. of water / Pole hole unmaintained roadbeds and equipment for digging its use ISSUED BY APPROVED BY

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GENERAL PRACTICES

SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN

Vegetation					
Pole/Tower Ground Clearance (PRC 4292)	10' clearance around poles and tower structures hand tools only	~		4	Not Permitted
Pole/Tower Ground Clearance (PRC 4292)	10' clearance around poles and tower structures weed eaters/hand tools and chain	~		Must designate a Fire Patrol (Document)	Not Permitted
Conductor Vegetation Clearance (PRC 4293)	Tree trimming and occasional removal to maintain required clearances mandated by code	~		Must designate a Fire Patrol (Document)	Allowed when trees making contact or intermittent contact. Must have a dedicated Fire Patrol.
Noxious Weed Control	Controlling or abating weeds in permitted access roads & worksites	~		Must designate a Fire Patrol (Document)	Not Permitted
Other	r Activities				
Welding or Grinding	Welding or grinding will always require that it be done in an area 10' minimum clearance to mineral soil or equivalent	Must designate a Fire Patrol (Document)		Must have a dedicated Fire Patrol	Not Permitted
Blasting	Any work using explosives must have permit with restrictions identified	Must designate a Fire Patrol (Document)		Must designate a Fire Patrol (document) and 150 gal. of water and equipment for its use	Not Permitted
Combustion Engines	Compressors, generators, etc. must have 10' minimum clearance or equivalent from the heat source	~		Must designate a Fire Patrol (Document)	Permitted only for work that meets the extreme criteria and must have a dedicated Fire Patrol
Activities not covered by the <i>Matrix</i> that do not fit with an identified work activity require consultation with the On-duty Fire Coordinator for approval and/or additional mitigation requirements.					
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4.3.1 Optional considerations for particularly hazardous or high risk areas where additional							
4.3.1			scuss with On-duty Fire Coo				
4.3.1.1	Small fire engine or p	atrol unit with	n minimum 150 gallons of wa	ater			
4.3.1.2	Cache of fire hose ar	ache of fire hose and related accessories					
4.3.1.3	Water supply: water t	Water supply; water tender, truck, or hydrant (1500 gal. recommended)					
4.3.1.4	Dozer or tractor, capa			,			
4.3.2			-	ilar to other staging areas			
4.3.2 Helicopter Operations: Helicopter staging areas will be treated similar to with enough fire equipment for personnel on site or fire box available on r Incidental Landing Areas (ILA's) adequate firefighting equipment shall be helicopter for the number of personnel working on the ground at those sit				e on major operations. On nall be carried on the			
4.4 Ger	eral Fire Prevention Consid	derations:					
<mark>4.4.1</mark>			FTZ (and recommended in				
			sion all fire concerns. All fire edicated fire patrol, mitigation				
	extinguishment plans for a			in measures taken, and			
4.4.2	Smoke only in designated smoking areas or in a 10' clearing void of all grass or other vegetation.						
4.4.3	Idling your vehicle in areas of brush, grass, or other vegetation is prohibited. When parking in these areas; shut off vehicle and check vehicle undercarriage for any threat of fire ignition.						
4.4.4	When driving over grass meadows or areas of low vegetation, have a designated Fire Patrol follow along with fire tools available to extinguish an inadvertent fire start. If traveling alone, you become the designated fire patrol, frequent observations of the ground behind you should be made with fire tools ready and available and this should not be done in elevated or extreme conditions.						
4.4.5 At work sites have all required tools available and within 50' of the work activity. Tools sho be serviceable and ready for use.				work activity. Tools should			
<mark>4.4.6</mark>			pable of producing sparks a				
	exposed exhaust system, provide an area with 10' clearance or equivalent from the heat source and at a minimum assign and document a designated Fire Patrol during elevated and extreme conditions.						
4.4.7	All internal combustion en	gines shall h	ave approved spark arrester	'S.			
4.4.7.1							
4.4.7.2	Turbocharged engine	es are exemp	t.				
4.4.8	When it is possible, wet do areas.	own adjacent	vegetation when performing	g at risk work in the wildland			
4.4.9							
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				-
4.4.10 When it is possible, wet down adjacent vegetation when performing at risk work in t areas.				
4.4.11	Consider work during the hot		rictions in the wildland areas avoidin ns of the day.	g particularly hazardous work
4.5	of all of our efforts. very small fire that unmanageable or u to a safe area. If we	We do ca is within o unsafe for ork activitie	erations: As previously indicated, fi arry the proper equipment to rapidly e ur capabilities to take action on. If a you to continue your suppression ac es require personnel to perform utility ollowing considerations become impo	extinguish a witnessed ignition or any time the fire becomes ions, you should stop and retreat related work adjacent to or near
4.5.1		within or	otective Equipment (P.P.E.), standar adjacent to uncontrolled fire perimete.	
4.5.2	internally usin communicate for the duratio of the SDG&E resources), the	g SDG&E with fire ag n of an inc Incident C e Fire Coo	acent to a wildland fire, positive com work protocols. It is critical that emp gencies for reporting fires and for the cident. Cross communication with the Commander (single point of contact a ordinator (FC), or the On- Site (pre-de or in the absence of a Fire Coordinat	oyees have the ability to exchange of critical information e fire agencies is the responsibility assigned to manage all SDG&E esignated work supervisor for
4.5.3			ing at all times, observe personally c , FC, or On-Site Supervisor) who is n	
4.5.4	Understand th and check out	e chain of when ente	Command System (ICS) while assign command for the incident and who ering an uncontrolled fire perimeter a DG&E Single Point of Contact.	ou are accountable to. Check in
4.5.5		(safe acc	nate safety zones (areas large enoug ess to these safety zones) when wo	
4.5.6	Get proper res prevent accide		quate water during extended fire act r injuries.	vity to avoid fatigue and help
4.5.7	of falling rocks	s, trees, an	n when driving within a fire area and ad other debris as well as road obstru en visibility is limited.	
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	PERATIONS AND MAINTEN	IANCE WILDLAND FIRE PREVEN	TION PLAN
4.6	Red Flag Warnings/Extreme National Weather Service. Its occupants in the wildland are activities. There are currently RFW. One is wind related, al "Extreme" operating condition that without performing it wou and is issued when areas of " Coordination and Meteorology the RFW. RFW are generally territory. The wind/relative hu service territory and can be en between Fire Coordination and group. In either case work re allow (exempt) work necessa	Fire Potential Index: Red Flag Warn intent is to pass along critical fire wea as to bring about more prudent actions two basic criteria (see definitions unde ong with extreme dryness, and this R automatically and all work activity wil Id create a greater risk. The second R dry" lightning are imminent. During th y will confer to determine the operating issued for various weather zones that umidity RFW will apply to all identified xpanded to exclude weather zones if n and Meteorology. Extreme FPI is issued strictions likely apply, see 4.3. Super ry to mitigate an immediate fire risk. The	hings (RFW) are issued by the ather information to users and s in all of their wildland related er RFW) for establishing a FW will be considered Il cease except for such work RFW criterion is lightning related his type of RFW, Fire g condition for the duration of at transect the SDG&E service weather zones within SDG&E hecessary after consultation d by SDG&E Meteorology visors will retain authority to he supervisor will be required to
4.7	decision and documentation p remind affected parties of wor Project Activity Levels: The risk of fire on National Forest Project Activity Levels (<i>PALS</i> day. It may be different for di CLEVELAND NATIONAL FO PAL index will determine wha mitigation can be done to be a Prevention plan must be follo version: (XXX) XXX-XXXX).	equired the On-duty Fire Coordinator of process. During pre-event conference rk restrictions as they relate to the parti- e United States Forest Service has a pri land, particularly in the timber or moun). Each day at 4:00 p.m. the PAL will b fferent geographical areas in the count REST. This information is available by it activities can be done on the forest the allowed to do additional work activities. wed when working on USFS lands (con-	calls Fire Coordination will icular event. rogram it utilizes to reduce the tain areas. It is referred to as be announced for the following ty. IT ONLY APPLIES TO THE calling (XXX) XXX-XXXX. The ne following day and what risk The CNF O&M Fire ntact On-Duty FC for current
<mark>4.8</mark>	routine day to day work activi contractors. For projects outs especially hazardous the Fire determination whether this W plan with some minor addition is required. If required the F required plan, follow it through On major projects there may fire agency that will be incorp	e Plans: This Wildland Fire Prevention ties performed in the wildland by all SD side of normal work activities or for an a Coordination group should be consulted ildland Fire Prevention plan is sufficient onal mitigation will suffice, or if a project C will work with the Project Manager of h to approval, and monitor compliance be additional requirements assessed b orated as required into the project spec	OG&E employees and activity that seems to be ed. The FC will make a at for the prescribed work, this t specific Fire Prevention Plan r representative to develop the with the plan as appropriate. by the CPUC or a jurisdictional cific Fire Prevention Plan.
4.9	given area have the authority are experiencing a critical sho incumbent on them to insure	Proclamations: The Fire Chiefs with jut to proclaim certain restrictions in extre prtage of resources. These cases will be we are informed of any temporary char tion we would be required to comply as	me fire conditions or when they be very rare and it will be nges in fire restrictions for a
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4.10	prevention training on a training chooses to go to has the required tools for incorporated into annual training can be accompli- schedule sessions spect work within or immediat recommended: Two ho fire behavior training. F the SDG&E Incident Co advanced ICS training is assist with arranging qui qualify additional SDG&	It is mandatory that all field going emp of annual basis. If an employee who do the field they will be escorted by som or both employees. Wildland Fire Prev I Compliance Training and documented ished in one hour at a routine safety r ifically for this purpose. For those emp ely adjacent to an uncontrolled fire area urs total consisting of Fire Safety, Incid or supervisors, managers, and compar mmander or EOC "Officer in Charge" of a recommended. The Fire Coordinator alified instruction. The FC may bring in E employees as instructors, using the intation of this training shall be done by an grecords.	es not have wildland fire prevention eone who has had the training and ention training (SFUGN103) will be through using this process. The neeting just prior to fire season or loyees who are likely to be asked to a, the following additional training is ent Command System, and basic by officers, who could be assigned as n a major incident, additional group will provide this training or additional qualified instructors, or train the trainer" approach to assist
4.11	EOC and Control Cent	ers:	
4.11.	a vital role in any fi critical. Provide inf responsibility beco this standard pract	Electric Distribution Operations, Electric re emergency. Communications with to ormation updates and feedback to eac mes affected. This should continue thr ce governs the fire prevention aspects s manage the System Operation and a complied with.	hese groups, when applicable, is h of these groups as their areas of ough the duration of the incident. As of an event, Distribution Operations
4.11.2		the EOC of potential activation is recoures are identified in ESP 113 FIRE CO ped.	
4.12	within the company. Th	G&E has (6) full-time Fire Coordinators ey are essentially the liaison for the co lated to this plan or request assistance	mpany to the Emergency Response
5.0 <u>REFER</u>	ENCES		
5.1	State Forest Standard F	ractice Act: e_mgt/downloads/2015%20FP%20Rulebook_wi	th%20TRA%20No%201_Final.pdf

- 5.2 TMC 1320 (aka DOP3013, ESP109 SDG&E Fire Conditions)
- 5.3 ESP 113 FIRE COORDINATION
- 5.4 Power Line Fire Prevention Field Guide 2008 edition http://cdfdata.fire.ca.gov/pub/fireplan/fpupload/fppguidepdf126.pdf

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ELECTRIC STANDARD PRACTICE

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DEPARTMENT	DIVISION	EFFECTIVE DATE
TRANS. & DISTRIB. ENGINEERING	DISTRIBUTION ENGINEERING	JULY 26, 2016
SECTION		
GENERAL PRACTICES		
GENERAL PRACTICES		

SUBJECT TITLE

SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN

6.0 REVISION HISTORY

Effective Date:	Type Of Change	Brief Description of Change
26Jul2016	Revised	SDG&E Fire Program Manager has made minor changes to this standard. Revisions or additions highlighted in YELLOW. Removed Attachment 2, Project Specific Fire Plan Template.
8Jun2015	Revised	SDG&E Fire Program Manager updated all maps
25Jul2014	Revised	Revised by SDG&E Fire Program Manager
24Apr2013	Revised	Revised by SDG&E Fire Program Manager
05Jul2012	Revised	Revised by SDG&E Fire Program Manager

7.0 <u>ATTACHMENTS</u>

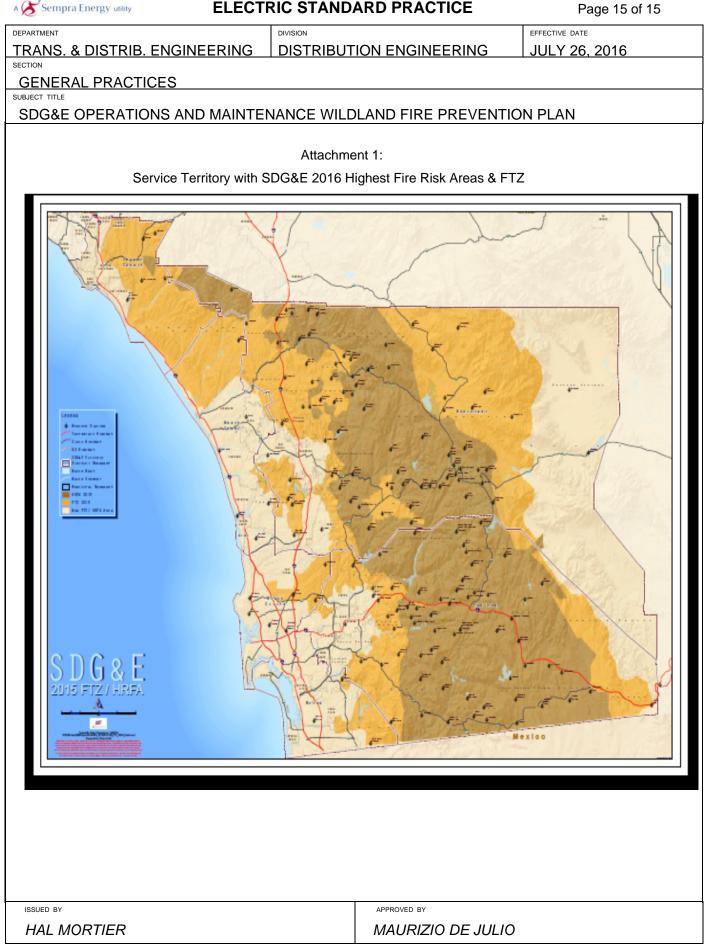
7.1 Attachment 1: Service Territory with SDG&E 2015 Highest Fire Risk Areas & FTZ

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No.



ESP TEMPLATE- Nov2014 / GJC - EDE

Attachment 5: Worker Education Materials

Cleveland National Forest Power Line Replacement Projects

Construction Fire Prevention/Protect

COURSE OBJECTIVES

- FIRE PREVENTION AND FIRE SAFETY
- FIRE DETECTION AND REPORTING
- SMALL FIRE SUPPRESSION ACTIONS
- MEET THE TRAINING REQUIREMENTS OF THE PROJECT CONSTRUCTION FIRE PREVENTION PLAN
- KEEP THE PROJECT IN COMPLIANCE

Who Needs This Training?

- >ALL Project Construction Personnel (SDG&E and Contractors)
- > Project Resource Monitors and Inspectors



Overview

- > Safety is SDG&E's priority during construction of this Project.
- The Construction Fire Prevention/Protection Plan (CFPP) provides an overview of the strategies SDG&E will employ to reduce the potential of starting fires and appropriately respond to fires during construction. These measures support SDG&E's goal of keeping project personnel safe.
- > The Project area has a high risk of wildland fires.
 - By implementing the strategies discussed in the CFPP and this training, we can prevent project fires and respond to offsite fires that may present risks to personnel.

Overview

- > The 3 main principles used to keep personnel safe from fire dangers include:
 - Fire Prevention- Eliminating or mitigating conditions that may cause fires
 - Early Detection- Immediate or early detection
 - **Rapid Extinguishment** Utilize required fire equipment and training to put it out quickly

Communication

- All construction crews and inspectors shall be provided with radio and/or cellular telephone access that is operative throughout the project area to allow for immediate reporting of fires.
- Communication pathways and equipment shall be tested and confirmed operational <u>each day</u> <u>prior</u> to initiating construction activities at each construction site

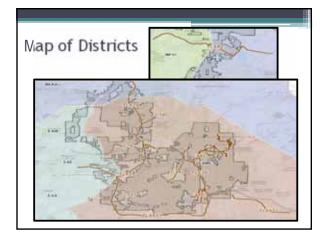
Fire Patrols

- Project fire patrols will be responsible and accountable for fire prevention, risk management, early detection, and rapid extinguishment of fires.
 - During the construction phase of the project, fire patrols will be present.
 - Fire patrols will be maintained during construction hours and for 1 hour after the end of daily construction and/or hot work (e.g. welding, cutting, and grinding)

Fire Potential Index

• The FPI converts environmental, statistical, and scientific data into an easily understood forecast of short-term fire threat. The FPI is used to determine the operating condition for each day Normal, Elevated, or Extreme.

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Project Activity Level (PAL)

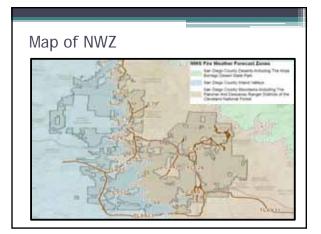
 PALs are used by the US Forest Service to regulate activities on Forest Service land. This term applies to work within the boundaries of the Cleveland National Forest. Any work being conducted within the boundaries of the CNF must be in compliance with the PAL restrictions and mitigations.

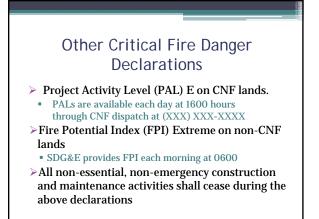
Map of PAL Areas



	Project Activities			FAL Level (Sites on)	Chif Land)		
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Understanding your Activity and Risk Level

- > It is your responsibility to know what mitigation requirements are applicable to your activity
- > Work restrictions change based on the SDG&E risk level (FPI), the PAL for CNF land or if a RFW is issued
- > Refer to the Project Fire Prevention Matrices in the CFPP for CNF land and non-CNF land
- ≻If you aren't sure **ASK**



Fire Risk Mitigation Equipment

- ≻1- Round Point Shovel (46" in length)
- ≻1- Pulaski
- ≻1- 5 gallon Backpack Pump
- ≻1- Fire Extinguisher at least size 2A:10BC

Tools must be within 50' of work areas





Water may gradually leave the back pump for a number of reasons, so the back pump will need to be checked and refilled regularly









Generators, Pumps, and Augers

Standard Fire tool Package within 50 feet

OR

Vehicles with standard fire tool package within 50' of work site

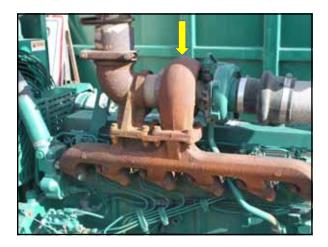




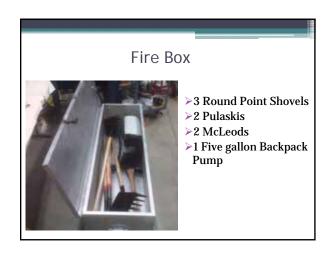


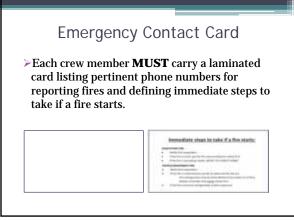


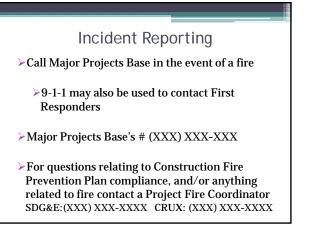


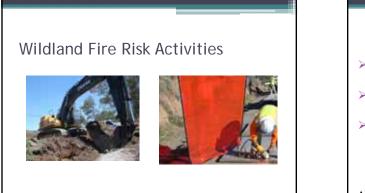








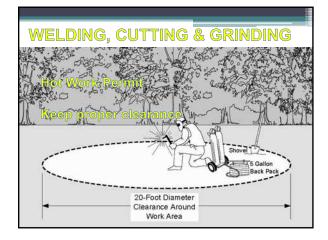






Any activity that uses a piece of heavy equipment that may come into contact with rock and create a spark

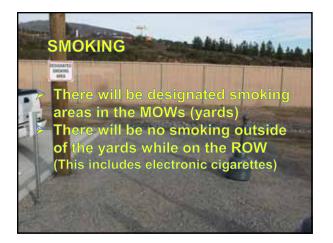




Portable Gasoline Powered Equipment (Chainsaws, Weed Eaters, Cutoff Saws)

- Standard Fire Package within
- 50' of operations and ≻1 Round point shovel within 25' of operation or a BC fire extinguisher in the operators immediate possession
- Fueling requires 10 feet of clearance, a shovel and a fire extinguisher within 25'



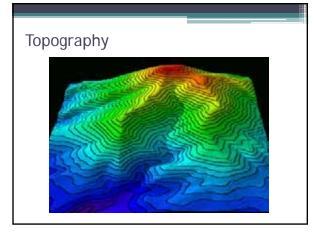




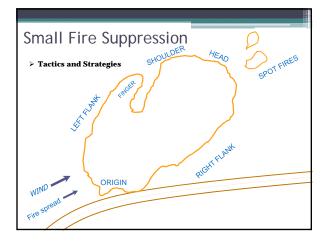
















What are the risks of being out of compliance?

≻Starting fires

- Endangering crews and the public
 Potential damage to private property and other entities along the right of way

≻Work stoppage and delays

Non-compliance can lead to mandatory shut downs, delays and/or additional training (all of these end up costing \$\$\$)

CPUC can directly fine the Project for non-compliance



[≻]Fines