

Cleveland National Forest Power Line Replacement Projects

Construction Fire Prevention/Protection Plan

Rev. 09/23/2020

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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 MVICC
FRA	U.S. Forest Service	911 or (XXX) XXX-XXXX
FRA	U.S. Bureau of Land Management	911 or (XXX) XXX-XXXX FICC
FRA	Bureau of Indian Affairs, Southern Ca. Agency	(XXX) XXX-XXXX FICC
	Campo Reservation Fire	911 or (XXX) XXX-XXXX 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 MVICC
(DPA, Direct Protectio	on Area, SRA, State Responsibility Area; Fl	RA, Federal Responsibility

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)				
ΑCΤΙVΙΤΥ	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	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	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 oparting equipment must have 5' of clearance on all is ides 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: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		
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	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° 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		
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.	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		
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 ZA: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: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	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 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, 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:10B: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:							
Spark Arresters: All internal combustion engines shall have a Drive in sites: Standard fire mitigation tools on whicles will a	pproved spark arresters; Engines used to provide motive power for trucks, tractors, buses, an	d passenger vehicles, except motorcycles, are exempt if the exhaust system is equipped with a ne moved from the vehicle to the site	muffler; Turbocharged engines are exempt.				
Delivery Vehicles: Defined as vehicles that will drop off equip	ment 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	ccessing the site. If vehicle is just moving from one area of the project to another area o	f the project it is a project vehicle and will have the standard fire tools.			
Blasting: (or any use of explosives) requires a separate fire plan that may require additional mitigations							
Major Projects Base: (XXX) XXX-XXXX	Project Fire Marshal: (XXX) XXX-XXXX	On-Duty Fire Coordinator: (XXX) XXX-XXXX					

Attachment 2: Project Fire Prevention Matrix on CNF Land

Project Activities		PAL Level (Sites on CNF Land)					
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	A	В	С	D	Ev	E and RFW
If your activity does not fall into a specific category consult the fire prevention plan, ask your FCA, or reach the Project Fire Coordinator/s for clarification. 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	The PAL for the Dis	following day car batcher for the PA	n be obtained afte AL for the Fire Dar	er 4:00pm by calli nger Rating Area v	ng (619) 557-5262 vhere work will o	and asking the ccur
Privately Owned Vehicle (POV)	A privately-owned vehicle <u>used as</u> <u>transportation and parked in a</u> <u>yard ONLY.</u> (Parking areas must have adequate clearance from combustible material)	No tools required	No tools required	No tools required	No tools required	No tools required	Activity Not Permitted without prior approval from either Project Manager and/or Project Fire Coordinator/s
Project Vehicles & POV's on the ROW or worksites	Company owned vehicles, Vehicles with company markings, and equipment, and POV's	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	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	Activity Not Permitted without prior approval from either Project Manager and/or Project Fire Coordinator/s
Fire Box	3 shovels, 2 Pulaski's, 2 McLeods and 1 full 5-gallon backpack pump.	Required in every MOW and where specified by Project Fire Coordinator/s due to site conditions	Required in every MOW and where specified by Project Fire Coordinator/s due to site conditions	Required in every MOW and where specified by Project Fire Coordinator/s due to site conditions	Required in every MOW and where specified by Project Fire Coordinator/s due to site conditions	Required in every MOW and where specified by Project Fire Coordinator/s due to site conditions	Required in every MOW and where specified by Project Fire Coordinator/s due to site conditions
Helicopter Operations	Helicopter See specific work activity for tools/equipment involved in helo- supported operations	Helicopter staging areas will be treated like 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 like 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 like 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 like 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.	See specific work activity for tools/equipment involved in the operations, and the mitigation measures for that activity	Activity Not Permitted without prior approval from either Project Manager and/or Project Fire Coordinator/s
Aerial Inspections - Drones	Drones Battery Powered Only - Must comply with Project Vehicle/POV on ROW/Worksite compliance requirements	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	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher	Activity Not Permitted without prior approval from either Project Manager and/or Project Fire Coordinator/s
Gasoline Powered Hand Tools	Chain saw, Weed Eater, etc (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 operator's 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 operator's 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 operator's 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 operator's 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 operator's immediate possession. Assign a spotter/swamper during operations. 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
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'.	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 Not Permitted without prior approval from either Project Manager and/or Project Fire Coordinator/s	Activity Not Permitted
Combustion engines	Generators, Compressors, any piece of non-vehicular equipment with a combustion engine * <u>Not integral to the operation of</u> <u>a foundation drill</u>	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	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	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	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. <u>Designated Fire Patrol</u> <u>Required</u>	Activity may take place <u>only in a</u> <u>cleared MOW</u> ; 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 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</u> <u>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	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, <u>100</u> 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:10B:C Fire Extinguisher within 50 feet, <u>100</u> gallons of water with pump and <u>hose on site</u> , Area is wet down sufficiently to prevent ignitions	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. <u>Dedicated Fire Patrol required</u>	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, <u>A Designated</u> <u>Fire Patrol required and must be</u> <u>present during work and 1 hour</u> <u>after hot work is complete</u>	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, <u>A Designated</u> <u>Fire Patrol required and must be</u> <u>present during work and 1 hour</u> <u>after hot work is complete</u>	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, <u>A Dedicated</u> <u>Fire Patrol required and must be</u> <u>present during work and 1 hour</u> <u>after hot work is complete</u>	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, <u>A Dedicated</u> <u>Fire Patrol required and must be</u> <u>present during work and 1 hour</u> <u>after hot work is complete</u>	Activity Not Permitted	Activity Not Permitted

Project A	Activities	PAL Level (Sites on CNF Land)					
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW
Aerial Hot work (in addition to Hot Work requirements)	Any hot work that occurs with the welder's feet above ground level. Hot work should not be performed 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.	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.	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.	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
Removal and/or installation of fencing and/or berms	Hand tools, Loader with fence post installer/remover, 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; 150 gallons of water with pump and hose on site. <u>Dedicated Fire</u> <u>Patrol Required</u>	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	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:10B:C Fire Extinguisher within 50 feet, <u>150</u> gallons of water with pump and <u>hose on site</u> , Area is wet down pre and post work to sufficiently prevent ignitions.	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, A fully charged 2A:10B:C Fire Extinguisher within 50 feet, <u>150</u> gallons of water with pump and <u>hose on site</u> , Area is wet down pre and post work to sufficiently prevent ignitions.	Activity Not Permitted	Activity Not Permitted
Movement of Equipment <u>with Steel tracks</u>	Steel Track Equipment	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 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 within 50 feet; 50 gallons of water with pump and hose on 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 within 50 feet; 50 gallons of water with pump and hose on a different vehicle following the equipment. <u>Designated Fire Patrol Required</u>	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 a different vehicle following the equipment. <u>Designated Fire Patrol Required</u>	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 a different vehicle following the equipment. <u>Dedicated Fire Patrol Required</u>	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	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, 150 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions, <u>Dedicated Fire Patrol Required</u>	Activity Not Permitted

Project Activities			PAL Level (Sites on CNF Land)				
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW
Structure Erection/Pole Setting	Crane, Forklift (See specific work activity for other tools/equipment involved in operations)	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, 150 gallons of water with pump and hose on site, Area is wet down sufficiently to prevent ignitions, Dedicated Fire Patrol Required	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	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, Area is wet down sufficiently to prevent ignitions, <u>Dedicated Fire</u> <u>Patrol Required</u>	Activity Not Permitted
Erosion Control (BMP)	Hand tools, battery powered tools, and/or non-ferrous tools only (If fuel powered equipment is used, see "Gasoline Powered Hand Tools" section)	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, Area is wet down sufficiently to prevent ignitions, <u>Dedicated Fire</u> <u>Patrol Required</u>	Activity Not Permitted without prior approval from either Project Manager and/or Project Fire Coordinator/s
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	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 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: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
Pad Clearing	Bulldozer, Excavator, hand tools, Steel Track equipment	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 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 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: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

Project Activities		PAL Level (Sites on CNF Land)					
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW
Vegetation Clearing	Hand tools, battery powered tools, and/or non-ferrous tools only (If fuel powered equipment is used, see "Gasoline Powered Hand Tools" section)	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, Area is wet down sufficiently to prevent ignitions, <u>Dedicated Fire</u> <u>Patrol Required</u>	Activity Not Permitted
General Construction activities (Benign work activity conducted with hand/mechanical/non-fuel powered tools or equipment; e.g., archaeological pre-digs)	Hand tools or battery powered tools only (No fuel powered tools; e.g., shovels, mechanic tools, non- ferrous hammer-type tools, wheel barrows, and material screens)	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 Designated Fire Patrol	Activity may be Permitted in a <u>MOW ONLY</u> with prior approval from either Project Manager and/or Project Fire Coordinator/s <u>Dedicated Fire Patrol required</u>
Monitoring and Assessment of: Vegetation, Wildlife, Cultural, etc.	Recording data and taking pictures with <u>Project vehicles, or</u> <u>POV</u>	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher. Communications must be maintained at all times	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher. Communications must be maintained at all times	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher. Communications must be maintained at all times	1 round point shovel, 1 Pulaski, 1 (5) gallon backpack pump, a fully charged 2A:10B:C Fire Extinguisher. Communications must be maintained at all times	Activity may be Permitted with prior approval from either Project Manager and/or Project Fire Coordinator/s	Activity may be Permitted with prior approval from either Project Manager and/or Project Fire Coordinator/s
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	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	Activity Not Permitted outside a MOW without prior approval from either Project Manager and/or Project Fire Coordinator/s	Activity Not Permitted outside a MOW without prior approval from either Project Manager and/or Project Fire Coordinator/s
Smoking	Cigarettes, Electronic Cigarettes, Cigars, etc	Smokers may only smoke in designated smoking areas within 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 within 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 within 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 within a MOW with an ash can, 10' diameter circle of bare mineral soil, and a designating sign	Activity Not Permitted	Activity Not Permitted
Conductor Replacement (working with <u>de-energized lines</u>)	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 within 50'	1 round point shovel, 1 Pulaski, 1(5)-gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher within 50'	1 round point shovel, 1 Pulaski, 1(5)-gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher within 50'	1 round point shovel, 1 Pulaski, 1(5)-gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher within 50', <u>Designated Fire Patrol</u> assigned with minimum 150 gallons required if utilizing stringing equipment powered by a combustion engine.	1 round point shovel, 1 Pulaski, 1(5)-gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher within 50', <u>Dedicated</u> <u>Fire Patrol</u> assigned with minimum 150 gallons at required if utilizing stringing equipment powered by a combustion engine.	Activity Not Permitted

Project Activities PAL Level (Sites on CNF Land)							
ΑCTIVITY	ACTIVITY TOOLS AND EQUIPMENT	А	В	с	D	Ev	E and RFW
Conductor Replacement (working with <u>energized lines</u>	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 within 50'	1 round point shovel, 1 Pulaski, 1(5)-gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher within 50'	1 round point shovel, 1 Pulaski, 1(5)-gallon backpack pump, and 1 fully charged 2A:10B:C fire extinguisher within 50', <u>Dedicated</u> <u>Fire Patrol</u> 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 within 50', <u>Dedicated</u> <u>Fire Patrol</u> assigned with minimum 150 gallons	Activity Not Permitted	Activity Not Permitted
Underground Utility Construction (developed roadway incl. requisite Hot Work for Trench Plate in roadway)*	Excavator, Trencher, Rock Saw, Road Planer, 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 and a fully charged 2A:10B:C Fire Extinguisher within 50'; 10' of clearance, wet down surrounding area, <u>A Designated Fire Patrol</u> required and must be present during work and 1 hour after hot work is complete	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 and a fully charged 2A:10B:C Fire Extinguisher within 50'; 10' of clearance, wet down surrounding area, <u>A Designated Fire Patrol</u> required and must be present during work and 1 hour after hot work is complete	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 and a fully charged 2A:10B:C Fire Extinguisher within 50'; 10' of clearance, wet down surrounding area, <u>A Designated Fire Patrol</u> required and must be present during work and 1 hour after hot work is complete	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 and a fully charged 2A:10B:C Fire Extinguisher within 50'; 10' of clearance, wet down surrounding area, <u>A Dedicated Fire Patrol</u> <u>required and must be present</u> <u>during work and 1 hour after hot</u> work is complete with minimum <u>150 gallons</u>	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 and a fully charged 2A:10B:C Fire Extinguisher within 50'; 10' of clearance, wet down surrounding area pre and post work. <u>A</u> <u>Dedicated Fire Patrol required</u> <u>and must be present during work</u> <u>and 2 hours after hot work is</u> <u>complete with minimum 150</u> <u>gallons. Additional 2,000 gallon</u> <u>water tender on site/segment</u>	Activity Not Permitted
*This Activity performed on EV day	s will be approved by the USFS and	approval will only be valid for 30 da	ays. SDG&E will need to request ap	provals every 30 days so that curren	nt weather and other contributing f	actors can be properly evaluated at t	hat time.
OTHER ACTIVITY/EQUIP	MENT REQUIREMENTS:						
Spark Arresters: All internal combustion engines shall have approved spark arresters; Engines used to provide motive power for trucks, tractors, buses, and passenger vehicles, except motorcycles, are exempt if the exhaust system is equipped with a muffler; Turbocharged engines are exempt.							
Drive in sites: Standard fire miti	igation tools on vehicles will me	et the requirements. If the work	site is more than 50' from the v	whicle the tools will need to be n	noved from the vehicle to the sit	e. Vehicle must remain stationary	y while tools are removed.
Delivery Vehicles: Defined as vel	hicles that will drop off equipme	nt or material and leave (i.e. Wa	ter tankers, postal workers); t	hese vehicles do not need to be	equipped with fire tools but driv	ers need to follow all WEAP man	dated procedures while

accessing the site. If vehicle is just moving from one area of the project to another area of the project it is a project vehicle and will have the standard fire tools.

Blasting: (or any use of explosives) requires a separate fire plan that may require additional mitigations

MPORTANT CONTACT NUMBERS

Major Projects Base: (XXX) XXX-XXXX

Project Fire Coordinator (SDGE)-(XXX) XXX-XXXX

On-Duty Fire Coordinator: (XXX) XXX-XXXX

Draft Revision 09-23-2020

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 XXX



SDGE			No.								
A 😸 Sempra Energy utility	ELECT	RIC STANDARD PRACTICE	Page 1 of 15								
DEPARTMENT		DIVISION	EFFECTIVE DATE								
TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016											
	,E6										
SUBJECT TITLE	,										
SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN											
1.0 <u>PURPOSE</u>											
1.1Southern potential. and other historically critical fire can prese possible. potentially necessary system O when add The intent1.1.1Assis to pre- critical	California presents The period for active dynamic weather far y host the region's l e conditions essentia ant a potential wildla In the event a fire y preventing a majo y to keep our emplo perations & Mainter ditional mitigation is t of this document is st SDG&E employed event the start of ar cal times of the year	a dangerous natural wildland fuel scenario ve fire conditions can exist all year long de actors. The fall months and at times exten argest fires. Extended dry periods can brin ally any time of the year. SDG&E facilities and fire ignition risk which must be minimize occurs, we must also be equipped to supp r fire. Most importantly, we must provide the yees safe while working in the wildland are nance work and can be used for low comple not required (see 4.7 SDG&E PROJECT S is to formalize procedures and routine pract es in their understanding of fire prevention by fire. The emphasis will be on wildland fire when the fire risk is high.	and explosive fire weather pending on rainfall totals ding into early winter ng us into or back into , equipment, and activities ed to the extent reasonably ress small fires, thus ne resources and training eas. This plan is for all lexity Construction projects SPECIFIC FIRE PLANS). tices that will: and to improve their ability res, especially during the								
<mark>1.1.2 Set s</mark> will a	standards for fire too	ols and equipment to be present in vehicles	s and at work_sites. This Id occur.								
1.1.3 Incor provi place Regu	rporate State, Feder ide compliance with e. This would incluc ulations, and "Speci	ral, and local requirements into our standa rules and regulations on a daily basis no r de, but not be limited to: pertinent laws, Fo al Use Permit" or "Right of Way" fire relate	rd way of doing business to natter where work is taking rest Standard Practice d requirements.								
1.1.4 Define or reference restrictions mandated by "Red Flag Warnings", "Project Activity Levels" other unique fire danger scenarios. Provide the means for determining when these restrict are in effect, what activities they prohibit, the precise locations to which they apply; and ide the notification procedures for all affected employees and contractors. (See TMC-1320)											
<mark>1.1.5 Ensu</mark> and i	are that our employ initiating assistanc	ees and contractors have positive commu e. Dialing 911 is the primary means for i	nication for reporting fires r eporting emergencies.								
1.1.6 Discu the p	uss procedure to ide process for developi	entify when a Construction project specific ng the document.	"Fire Plan" is required and								
1.1.7 Shar activi	e some common se ities to reduce the r	ense practices, with regards to fire safety, t isk of fires and to prevent injury to employe	hat should be used in all es as a result of fire.								
1.1.8 Intro risk r	duce and require th mitigation measures	e use of the "Fire Potential Index" to detern are advised or required.	nine when additional fire								
2.0 APPLICABILITY	2.0 APPLICABILITY										

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



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DEPARTM	ENT		DIVISION		EFFECTIVE DATE						
TRA	TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016										
SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN											
3.0 DEFINITIONS											
	3.1	.1 "At Risk" Activities: Activities that present a risk of igniting a wildfire									
	3.2	Wildland Areas: This term refuels available for ignition.	efers to any are	ea within the SDG&E ser	rice territory that has wildland						
	3.3	Fire Threat Zone (FTZ): This combination of potential fire be established practices within the certain construction practices	is is a CALFIR behavior (fuel r he FTZ on how s to be used wi	E developed rating of wilc ank) and expected fire fre v SDG&E constructs facili thin the FTZ. See attachn	lland threat based on a equency. SDG&E has ties and also determines nent 1.						
	3.4	SDG&E High Risk Fire Areas (HRFA): This area will be an assortment of GIS polygons that represent the zones of greatest concern within the SDG&E service territory, blending fuels, topography, wind, and system information. (The areas can change annually and the map will be labeled with the appropriate year, "SDG&E 20XX Highest Risk Fire Area" and is always a subset of the 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	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 generated areas within the service territe FPI is used for work activities (Normal, Elevated, or Extrem	-17): This is a tenance decisi discientific data di for a seven cory. The 7-day s. The FPI is u e), definitions	comprehensive assessm ons related to fire prevent a into an easily understoo lay forecast period for an / forecast is used for plan sed to determine the fire of each to follow.	ent of fire risk, used as a tool tion. The tool converts d forecast of short-term fire assortment of geographic ning purposes while the daily potential range for each day						
	3.6.1	Normal Fire Potential (activities can take place mitigation, as long as ba the baseline fire equipm requirements for working	1-11): It is cor in the wildlanc seline fire equ ent requiremer g in the wildlan	nsidered "Normal" when the l areas of the service terr ipment is available as pr nts meet or exceed all loo d areas.	ne FPI is green. All O&M itory without additional risk escribed in this plan. Note: cal, state, & federal						
	3.6.2	Elevated Fire Potential orange. Certain "at risk" additional risk mitigation activities.	(12-14): It is O&M activitie (as prescribed	considered "Elevated" wh s (as identified in the mat d in the matrix, see attach	nen the FPI is either yellow or rix, attachment 2) will require ment 2) to perform those work						
	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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HAL MORTIER

ELECTRIC STANDARD PRACTICE

No.

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					EFFECTIVE DATE	
IRANS. & D SECTION	ISTRIB. ENGINE	ERING	DISTRIBUTIONE		JULY 26, 2016	
GENERAL	PRACTICES					
SUBJECT TITLE	ERATIONS AND	MAINTE	NANCE WILDLAND	FIRE PREVENTIO	N PLAN	
3.7	Red Flag Warning expected to meet e	g (RFW):	The National Weathe e following criteria:	r Service will declare a	RFW when conditions are	
3.7.1	.7.1 Relative humidity is 15% or less with sustained winds equal to or greater than 25 mph, or frequent gusts equal to or greater than 35 mph for a period of 6 hrs or more. This RFW (based on wind/relative humidity) will be considered "Extreme" operating condition regardless of the FPI for that time period and have the same restrictions described for "Extreme".					
3.7.2	Dry lightning is for a lightning event that is not accompanied by enough precipitation to significantly wet fuels that have been identified as critically dry. This is common within the inland and mountain zones. This RFW (based only on dry lightning) will be assessed by Meteorology and Fire Coordination to determine the appropriate operating condition related to actual weather conditions, and Grid and Dist. Ops. will notify field personnel.					
3.8	Project Activity L only applies to wor each crew membe restrictions or mitig	evel (PAL rk within th r's respons gation mea): This term is specif e boundaries of the 0 sibility to know the P/ sures.	ic to the Cleveland Na CNF. When conductin AL level and adhere to	tional Forest (CNF) and g work on the CNF it is any additional work	
3.9	Fire Tools:					
3.9.1	Shovel: stand	dard round	point shovel with over	erall length of at least	46".	
3.9.2	3.9.2 Pulaski : an axe-like fire hand tool used for cutting, chopping or grubbing.					
3.9.3	McLeod : a fire hand tool used for raking and scraping.					
3.9.4	3.9.4 Backpack pump : is a portable 5 gallon water pack with hose and nozzle used for extinguishing Class A (common combustibles) fires and primarily wildland fires. They can rubber collapsible packs or stainless steel canisters.				nozzle used for ildland fires. They can be	
3.9.5	Fire box: can equipment wh hand tools an	be placed nen necess d/or backp	in a staging area or ary due to excessive ack pumps as deem	worksite to supplemer work activity. It gene ed appropriate.	t available fire suppression rally contains additional	
3.10	Major Operations activities or staging sites are typically la substation pads ar	Work Are g of resour arge in size nd any othe	ea: It will be consider ces will be concentra e and include but are er area where constru	ed a major operations ted in and out of a stag not limited to construct action work will be cond	work area when work ging facility. These work tion yards, fly yards, centrated.	
3.11	Fire Patrol:					
3.11.1	A <i>designated</i> accountability extinguishmen duties.	"Fire Patro for fire pre nt should c	ol" is a member of a w evention, risk mitigation ne occur. This can b	vork crew assigned the on, early detection of f be accomplished co-lat	e responsibility and ires, and rapid erally with other work	
3.11.2 A <i>dedicated</i> "Fire Patrol" is a person(s) assigned the responsibility and accountability for prevention, risk mitigation, early detection of fires, and rapid extinguishment should one of This will be their sole duty while serving as a dedicated Fire Patrol.				and accountability for fire uishment should one occur.		
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ECTDIC STANDADD DDACTICE

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SUBJECT	TITLE	PRACTICES						
SDO	S&E OP	ERATIONS AND MAINTE	NANCE WILD	LAND FIRE PREVEN	NTION PLAN			
	3.12	SDG&E Fire Coordinator (emergency service agencies incidents. The FC will help t and represent the utility nee	FC): The SDG8 for the utilities he emergency s ds to the emerg	E Fire Coordinator ser for everyday operations service agencies obtain ency service agencies.	rves as a conduit or liaison to the as as well as emergency n their needs related to the utility			
	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.	e (O&M): O&M	refers to post construct	tion care and maintenance of			
4.0	PROCE	DURE						
	4.1	General: SDG&E personne fire risk and exposure involv equipment;	I will be commit ed with potentia	ted to the following thre I wildland fires related t	ee step process for reducing the to our work activities or			
	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: worksite and immediate	prescribed fire t bly available for	ools and equipment wil rapid extinguishment of	ill be available within 50' of of any ignition.			
	4.2	Tools & Equipment: When and equipment are required work is in a wildland area ou does not apply to transient t items will meet the California Making this equipment avail mandated by the wildland fin Some additional project spee discussed in the following se 50' from the vehicle location vehicle and staged at the	working in the las a minimum tside the FTZ it raffic driving on a Forest Practic able at your wol e agencies with cific or weather ection of this pla on, the manda work site.	FTZ (identified on Attac and will be carried on the is recommended you up primary road beds throug Rules; Public Resourd k sites will also meet the in the company service specific requirements men. Please note that if ted equipment should	chment 1); the following tools the vehicles as described. If use these same standards. This ough the wildland areas. These rce Code Division 4, Chapter 6. he majority of the requirements e territory. nay be necessary and will be your work project is over d be removed from the			
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A 🔗 Sempra Energy 🖬	ELECTRIC STANDARD PRACTICE Page 5 of 15					
DEPARTMENT		EFFECTIVE DATE				
IRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016						
GENERAL PRA	CTICES					
	ATIONS AND MAINTE	NANCE WILDLAND FIRE PREVENTIC	N PLAN			
4.2.1	Passenger Vehicles (performing work in the wildland areas):					
4.2.1.1	1 round point show	el 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 show	el with overall length of at least 46"				
4.2.2.2	1 Pulaski					
4.2.2.3	1 (5) gallon backpa	ick pump				
4.2.3	Heavy Machinery or Eq tractors, etc.);	uipment (including tub grinders, whole tree	chippers, drilling rigs,			
4.2.3.1	1 round point show	el with overall length of at least 46"				
4.2.3.2	1 Pulaski					
4.2.3.3	1 (5) gallon backpa	ick pump				
4.2.4	Chain Saw Use;					
4.2.4.1	1 shovel within 25 feet of the chainsaw operation with unrestricted 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 a Fire Box or equiv there should be enough	Area (When vehicle equipment does not m valent should be located on site and be account to the total tools to outfit number of personnel on	eet the needs of the work essible to all personnel and scene);			
4.2.5.1	1 (5) gallon backpa	ick 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 with pre sim wor fire Nor 4.2 the ord acti dor	A Risk & Mitigation Matr a specific work activity wention measures required ply by having the required k site. Some activities in potential is determined b mal Fire Potential. Und suffice, except for specifi yellow/orange range and er to proceed with the wo wity will document how the period of the second	ix: The following matrix is designed to bler with the fire potential index for the day to es d in each scenario. Most of the work activi d equipment from section 4.2 available, ser volve more risk and may require additional y the daily Fire Potential Index. Green on er Normal the baseline tool & equipment cally noted exceptions. Elevated Fire Pot certain work activities may require addition rk; again refer to matrix. <i>The supervisor res e additional mitigation will be met for the data</i> <i>mal tailboard documentation or as separated</i>	nd the fire risk associated tablish the proper fire ties can be done daily viceable, and proximate to mitigation measures. The the FPI is considered requirements from section ential is when the FPI is in onal mitigation measures in sponsible for the work ay's activities. This can be a documentation.			

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HAL MORTIER	MAURIZIO DE JULIO



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DEPARTMENT		DIVISION	EFFECTIVE DATE
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SECTION			
GENERAL PRAC	TICES		
SDG&E OPERAT	IONS AND MAINTEN	ANCE WILDLAND FIRE PREVENT	TION PLAN
Extrem perforn consu mitiga has in will dc	me Fire Potential is the ming the work creates a It with On-duty Fire Coo tion is required. The sup fact ceased or why it wa ocument when a joint dec	red on the FPI and most work activitie greater risk than doing so. In those ca rdinator (XXX) XXX-XXXX and check r pervisor responsible for the work activit as acceptable to continue. If Fire Coor cision to continue work is made.	es will cease, except where not ases where work will be done, matrix to see if additional ties will document that work dination is consulted they too
	Normal	Elevated	Extreme
	< 12	12-14	15-17

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DG&E	OPERATIC	ONS AND MAINTENAN	ICE WILDLAND FIR	E PREVENTION F	PLAN		
		FIRE R	ISK & MITIGATION				
Th th Th to Pa or C ⁴	he work activ nat it cannot, his assumes o work site. <i>N</i> Patrol is commonly the work coordination for	ity described can be performed or by meeting the minimu the baseline tool requirem <i>lote; a "designated" Fire I nitted to fire prevention du</i> where not performing the or special mitigation requi	ormed to the operating m additional mitigation nents from section 4.2 Patrol can have co-late ties and responsibilitie work creates a greater rements.	level indicated unles requirements indica are available, servic eral duties, whereas es. The criterion for B r risk than doing so.	as specifically noted ated for that level. eable, and proximate a "dedicated" Fire EXTREME is to do Consult Fire		
			NORMAL	ELEVATED	EXTREME		
W	/ork ctivity	Work Activity	Operating Conditions	Operating Conditions	Operating Conditions		
V	Vehicle, Roads, Inspections Conditions Conditions						
	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	~	(Document)	and must have a dedicated Fire Patrol		
Ir	Vehicle travel	and un-maintained roadbeds Ground, aerial, security, climbing, vegetation, and weed control inspections	 ✓ 	(Document)	and must have a dedicated Fire Patrol Must follow vehicle travel rules above.		

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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

Vegetatio	n Management				
Pole/Tower Ground Clearance (PRC 4292)	10' clearance around poles and tower structures hand tools only	4		1	Not Permitted
Pole/Tower Ground Clearance (PRC 4292)	10' clearance around poles and tower structures weed eaters/hand tools and chain	\checkmark		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	4		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	4		Must designate a Fire Patrol (Document)	Not Permitted
Othe	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 desig Fire Pa (Docum	jnate a trol ent)	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 cove On-duty Fire Coor	not fit with an or additional m	identified	work activity require c equirements.	consultation with the	
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SDG&E OPERA	TIONS AND MAINTENA	ANCE WILD	LAND FIRE PREVENTIO	'N PLAN		
1 2 1	Ontional considerations fo	r portioularly	hozardaug ar high rick area	a whore additional		
4.3.1	mitigation measures are warranted (discuss with On-duty Fire Coordinator)					
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	nd related acc	cessories			
4.3.1.3	Water supply: water t	tender, truck,	or hydrant (1500 gal. recom	imended)		
4.3.1.4	Dozer or tractor, capa	able of produ	cina fire line	,		
432	Helicopter Operations: He	eliconter stad	ing areas will be treated sim	ilar to other staging areas		
7.0.2	with enough fire equipmen Incidental Landing Areas (helicopter for the number of	it for personn (ILA's) adequ of personnel	el on site or fire box availabl late firefighting equipment sh working on the ground at the	e on major operations. On nall be carried on the ose sites.		
4.4 Ger	eral Fire Prevention Consid	derations:				
<mark>4.4.1</mark>	It is required on projects in	n the SDG&E	FTZ (and recommended in	any wildland area) to		
	conduct a formal "tailboard	d" safety sess signated or d	sion all fire concerns. All fire	concerns will be		
	extinguishment plans for a	any at risk wo	ork for the day.	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.				of all grass or other		
4.4.3 Idling your vehicle in areas of brush, grass, or other vegetation these areas; shut off vehicle and check vehicle undercarriage f			ass, or other vegetation is p vehicle undercarriage for a	rohibited. When parking in ny threat of fire ignition.		
4.4.4	4.4.4 When driving over grass meadows or areas of low vegetation, have a designated Fire Pat follow along with fire tools available to extinguish an inadvertent fire start. If traveling alor you become the designated fire patrol, frequent observations of the ground behind you sh be made with fire tools ready and available and this should not be done in elevated or ext 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.					
<mark>4.4.6</mark>	When using any piece of e	equipment ca	pable of producing sparks a	nd/or which has an		
	exposed exhaust system, source and at a minimum extreme conditions.	provide an a assign and d	rea with 10' clearance or equestion of the second sec	Patrol during elevated and		
4.4.7	All internal combustion en	gines shall h	ave approved spark arrester	'S.		
4.4.7.1	4.4.7.1 Engines used to provide motive power for trucks, tractors, buses, and passenger vehicles, except motorcycles, are exempt if the exhaust system is equipped with a muffler.					
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	at risk work in the wildland		
4.4.9 Consider work hour restrictions in the wildland areas avoiding particularly hazardous v during the hottest portions of the day.						
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			-		<u>.</u>		
4.4.10) When it is pos areas.	sible, wet	down adjacent vegetatio	on when performin	g at risk work in the wildland		
4.4.11	4.4.11 Consider work hour during the hottest po		rictions in the wildland a ns of the day.	reas avoiding part	icularly hazardous work		
4.5	General Fire Safe of all of our efforts. very small fire that unmanageable or u to a safe area. If we an uncontrolled will	ty Consid We do ca is within o unsafe for ork activitie dfire the fo	erations: As previously arry the proper equipment our capabilities to take act you to continue your suppersonnel to as require personnel to allowing considerations b	indicated, fire pre- nt to rapidly exting tion on. If at any to pression actions, perform utility relate become important	evention is the primary focus uish a witnessed ignition or time the fire becomes you should stop and retreat ted work adjacent to or near for your safety (See below).		
4.5.1	Use proper Pe When working clothing shoul	ersonal Pro within or d be worn	otective Equipment (P.P adjacent to uncontrolled	.E.), standard SD0 fire perimeter con	3&E requirements apply. npany issued fire resistant		
4.5.2	When working internally usin communicate for the duratio of the SDG&E resources), th affected area) Commander.	on or adja g SDG&E with fire ag n of an inc Incident (e Fire Coc Superviso	acent to a wildland fire, p work protocols. It is criti- gencies for reporting fire ident. Cross communic Commander (single poin rdinator (FC), or the On or in the absence of a Fin	oositive communic cal that employees s and for the exch ation with the fire t of contact assign - Site (pre-designa re Coordinator or S	ations must be maintained s have the ability to ange of critical information agencies is the responsibility ned to manage all SDG&E ated work supervisor for SDG&E Incident		
4.5.3	Know what the a competent p	e fire is do erson (IC,	ing at all times, observe FC, or On-Site Supervi	personally or be in sor) who is monito	n direct communication with ring fire activity.		
4.5.4	Work within th Understand th and check out the IC, FC, or	e Incident e chain of when ent on-site SE	Command System (ICS command for the incide ering an uncontrolled fire 0G&E Single Point of Co	 while assigned t nt and who you ar perimeter after it ntact. 	o a fire incident. e accountable to. Check in is determined to be safe by		
4.5.5	Pre-evaluate a escape routes high fire dang	and desigr (safe acc er days.	ate safety zones (areas ess to these safety zone	large enough to p s) when working i	provide a safe retreat) and n the wildland areas during		
4.5.6	Get proper res prevent accide	st and ade ents and/o	quate water during exter r injuries.	nded fire activity to	o avoid fatigue and help		
4.5.7	Exercise extre of falling rocks driving speeds	eme cautio s, trees, an s down wh	n when driving within a f d other debris as well as en visibility is limited.	ire area and/or sm s road obstructions	oky conditions. Be aware and other traffic. Keep		
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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 necessan document the exemption. If r decision and documentation p remind affected parties of work	Fire Potential Index: Red Flag Warning intent is to pass along critical fire weathe as to bring about more prudent actions in two basic criteria (see definitions under F ong with extreme dryness, and this RFW automatically and all work activity will ce ild create a greater risk. The second RFW dry" lightning are imminent. During this try will confer to determine the operating co v issued for various weather zones that tra- umidity RFW will apply to all identified weat spanded to exclude weather zones if nece and Meteorology. Extreme FPI is issued by strictions likely apply, see 4.3. Supervise ry to mitigate an immediate fire risk. The se equired the On-duty Fire Coordinator can process. During pre-event conference call rk restrictions as they relate to the particular	s (RFW) are issued by the r information to users and all of their wildland related RFW) for establishing a will be considered base except for such work / criterion is lightning related ype of RFW, Fire andition for the duration of ansect the SDG&E service ather zones within SDG&E essary after consultation of SDG&E Meteorology for swill retain authority to supervisor will be required to provide assistance with the s Fire Coordination will ar event.
4.7	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 The PAL index will determine risk mitigation can be done to Prevention plan must be folloversion: (XXX) XXX-XXXX.	e United States Forest Service has a progr land, particularly in the timber or mountair). Each day at 4:00 p.m. the PAL will be a fferent geographical areas in the county. REST. This information is available by ca e what activities can be done on the forest be allowed to do additional work activities wed when working on USFS lands (contaction)	ram it utilizes to reduce the n areas. It is referred to as nnounced for the following IT ONLY APPLIES TO THE lling (XXX) XXX-XXXX. the following day and what s. The CNF O&M Fire ct On-Duty FC for current
<mark>4.8</mark>	SDG&E Project Specific Fire	e Plans: This Wildland Fire Prevention pl	an will be sufficient for most
	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	ties performed in the wildland by all SDG8 side of normal work activities or for an active Coordination group should be consulted. ildland Fire Prevention plan is sufficient for onal mitigation will suffice, or if a project sp C will work with the Project Manager or re h to approval, and monitor compliance with be additional requirements assessed by the orated as required into the project specific	E employees and vity that seems to be The FC will make a r the prescribed work, this ecific Fire Prevention Plan presentative to develop the n the plan as appropriate. the CPUC or a jurisdictional Fire Prevention Plan.
4.9	Other Critical Fire Danger P given area have the authority are experiencing a critical sho incumbent on them to insure particular area. Upon notificat	Proclamations: The Fire Chiefs with jurise to proclaim certain restrictions in extreme ortage of resources. These cases will be v we are informed of any temporary change tion we would be required to comply as ap	dictional responsibility for a fire conditions or when they very rare and it will be s in fire restrictions for a propriate.
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SDG&E OF	PERATIONS AND	MAINTEN	ANCE WILDLAND FIRE PREVENTIO	N PLAN
4.10	Fire Related Train prevention training training chooses to has the required to incorporated into a training can be acc schedule sessions work within or imm recommended: Tw fire behavior trainin the SDG&E Inciden advanced ICS train assist with arrangin qualify additional S with this effort. Do in the employee's t	ing: It is r on an ann go to the ols for both nnual Com omplished specifically ediately ac vo hours to ng. For sup nt Comman ing is reco ng qualified DG&E em cumentatio raining reco	mandatory that all field going employees ha ual basis. If an employee who does not ha field they will be escorted by someone who n employees. Wildland Fire Prevention tra upliance Training and documented through in one hour at a routine safety meeting ju y for this purpose. For those employees wild accent to an uncontrolled fire area, the follow tal consisting of Fire Safety, Incident Common pervisors, managers, and company officers ander or EOC "Officer in Charge" on a major commended. The Fire Coordinator group wild instruction. The FC may bring in additional ployees as instructors, using the "train the form of this training shall be done by the work cords.	ive basic wildland fire we wildland fire prevention has had the training and ining (SFUGN103) will be using this process. The st prior to fire season or ho are likely to be asked to owing additional training is nand System, and basic who could be assigned as incident, additional Il provide this training or al qualified instructors, or trainer" approach to assist a supervisors and recorded
4.11	EOC and Control	Centers:		
4.11.	1 Service Dispa a vital role in a critical. Provid responsibility this standard and Grid Oper & ESP109 mu	tch, Electri any fire em de informat becomes a practice go rations mai ist be com	ic Distribution Operations, Electric Grid Operations, Electric Grid Operations, Electric Grid Operation updates and feedback to each of these affected. This should continue through the overns the fire prevention aspects of an even nage the System Operation and all protoco plied with.	erations, and the EOC play ups, when applicable, is groups as their areas of duration of the incident. As ent, Distribution Operations als in TSP-1320, DOP3013,
4.11.	2 Early notificati Notification pr followed as pr	ion to the E ocedures a escribed.	EOC of potential activation is recommended are identified in ESP 113 FIRE COORDINA	d when appropriate. TION and should be
4.12	Fire Coordination within the company agencies. Questio through the FC gro	: SDG&E I /. They are ns related pup.	nas (6) full-time Fire Coordinators and addi e essentially the liaison for the company to to this plan or request assistance on any er	tional qualified assistance the Emergency Response mergency should be made
5.0 <u>REFER</u>	ENCES			
			• .	

- 5.1 State Forest Standard Practice Act: http://www.fire.ca.gov/resource_mgt/downloads/2015%20FP%20Rulebook_with%20TRA%20No%201_Final.pdf
- TMC 1320 (aka DOP3013, ESP109 SDG&E Fire Conditions) 5.2
- 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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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 ATTACHMENTS

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

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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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bet are ut	Dian see (Spel Anytin Resumpt)	Litured paint strains, 1 Palant, 1 (5) paint hangant party within 20, Than must be one drained on a fina antippetier within 20. Antippe a particle lowerger transposed on t	Transform more, Think, 15) gifter temperature which M. There must be one should as the entry after which St. August and the intervention		
antine Provent food Facility (Charcoso, matilities: thopse, generator, J	(author	lappent og te vildet die sullig på sor støvelte minge di 2 di hæren. Here at ^t er ettigsler utte 2	Nacament may be reliated. Proc surray and to an avec with a normal call of theorem, these and the extregation werea, 25		
anti-ture espere	Sevenites, Exeptences, any post of a payment with a contraction angles	2-solar port block, 5-Auel, 1-11 gefor tablack party within 30° 2-Ally marget 24.5855 five tangunite; shife quarting applicant fruit Sect 31 disputs to all site action consultative shared and evaluate the solar solarity automaticate shared and evaluate source the material party investment of called sources	Envertigent Storet, 1:Aukel, 1:2), gefor kentgald gang witter, NY, 45-big meget 24-2000 Fire betrgenner, skrike geneting gegennet med frank 2:2 herenet mill date et ne sembertike herenet nach storet, skrike segenet de sessere van geskersent hat in geskel sessere		
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ener nebel visuale	leverary, Wein, Imme (22 Section, prover	All writing until grant the fot and all follow site and program for sold a stream over the product and in 1914. TRA DC Couper that the a low grant of the All All All All grants for bottom to any stream of the All All All All All All grants for any and a stream of the All All All All All All All All All All	All weiging sufficient and the first weight sufficient and program that will be not own much be consistent at the weight state. The prior barries is not prior through a state, if the prior barries have write the state of the prior and the constraining and a deduced. The theory would be prior barries and prior to state of the state is a state of the state of the state of the the will be imposed.		
	Ary hit wait that accur with the owner's her above grower	a sta gentle par sill in discussi art represented she ha	a vie gents par wil be bismed and implemented when		

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 Autorities		PAL Level (Sites on Ord Land)					
ACTIVITY	ACTIVITY TOOLS AND EQUIPMENT		•			-	t and RPM
Paper activity gen, set tail into a specific category crossel the fire presenties size, and pare (A, is call (DOC for pareament) 6 is place required. By to inter- what mitigative toxic are required for para activity.	Expected twos for articles 7 you are multiple tools or are doing multiple activities too multiple samings hows is the south. The whish constraints the appropriate samin for the article's particul white the required dislates for the article's these twolf easies the required dislates for the article's these twolf easies the required multiple same tools with prior measures	The FML for the following data to be administrative STO(se by selling \$100 CU Cut and stating the Standards for HN for its (the Standard Mark administration)					
Chain saw use	(Chain saw : (Spark Arrester Registred)	Ensured point thosed, 1 matasis, 1 (5) getter Ensigned purps within 10%. There must be me divert exting an ensure the exting and a first exting and the set of the specialized to meniated parameters. Assessment during agenetics:	L mank ponel chovel, L Pulaski, L CJ gallon kackpack, pump within 30°, Thans much be one disput within 30° or a free satisfiguisher in the operatory menalistic poperatory/scamper a long spectrol.	Linuxed point showed, 1 Pulsate, 1 (2) galan baligaet purpose within 50°, There must be one booset within 20 or a free suffraguration to meshala secondary lanearshop apertary lanearshop during operations	a nound point phone, is Poliski, 13) galles barback pump wither Stree exinguisher in the exinguisher in the operators ennetiate processors. Adapt a potenty barback	Activity fast Parentlas	Actually for Parinettee
Gasoline Powered Tool Fueling (Chain swy, Weed Eater, chipper, generator)	Gas can/brack	Equipment may be refusited after cooling and in an area with a minimum of pt o issessment, thread and this according other within 25'.	Autometer may be refueled after tooling and in an area with a memous of 20 of closeres, Shovel and free entropolar without 25	Equipment may be set used after tooling and in a area with a moment of 30 of clearance. Showl and two pattinguither within 20	Equipment may be exturbed after socking and in an area with a memory of 321 of theorems, threvel and tree extinguistics willing 251	Equipment may be refuenced after cooling and in an area with a memory of 32 of statement. Should and free setting other within, 32'.	Equipment be refueled cooling and and we with el charter Showel and estinguish attion 27
		Ensured pacted Shaved, 3 Parlacht, E(5) galton bachgach gamga wittin, 107 A fully charged 2A 2010 C	L Hourid pased shraved, L Pullanks, 1 (5) gallon backpack pulling within 50°; A Aufly changed DALDBLC Fire Entroguisties: White	Louised particl above), 1 Polaski, 1 (3) galler Satilga 3 porga other 10°, A Sally Charged SA 100 C For Polase other Web/10	1 manif parti d'avel, 1 Faleski, 1 (1) gellen Tallock parts ettén 10°, A Tally charget 3A 300 C fée Farence della	defruits may take place only in a cleaned MI20(13 nound point shoved, 3 Pulane, 7 (5) gallon beckpack pump, untrol 50 while operating	Activity may place only i cleaned MOV found per thered, 1 Pub 1 (K) galle backpark per within NC.







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



















Emergency Contact Card

> Each crew member **MUST** carry a laminated card listing pertinent phone numbers for reporting fires and defining immediate steps to take if a fire starts.

IMAGES REDACTED





Heavy Equipment Use Trenching Grading Excavating

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