Appendix F

SDG&E Operations and Maintenance Wildland Fire Prevention Plan

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 (858) 654-8683 or HMortier@semprautilities.com



	SUGE			No.			
10	Sempra Ene	ELECTR	RIC STANDARD PRACTICE	Page 1 of 15			
TRA	DEPARTMENT DIVISION EFFECTIVE DATE TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016						
SECTIO GE		PRACTICES					
	G&E OP	ERATIONS AND MAINTER	NANCE WILDLAND FIRE PREVENTIO	N PLAN			
1.0	PURPC	<u>ISE</u>					
	1.1	potential. The period for activand other dynamic weather far historically host the region's l critical fire conditions essentican present a potential wildla possible. In the event a fire potentially preventing a majo necessary to keep our employ system Operations & Mainter when additional mitigation is	a dangerous natural wildland fuel scenario ve fire conditions can exist all year long dep actors. The fall months and at times extend largest 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 suppr r fire. Most importantly, we must provide the pyees safe while working in the wildland are nance work and can be used for low complet not required (see 4.7 SDG&E PROJECT S s to formalize procedures and routine practi	bending on rainfall totals ding into early winter ag us into or back into equipment, and activities ad to the extent reasonably ress small fires, thus he resources and training as. This plan is for all exity Construction projects PECIFIC FIRE PLANS).			
	1.1.1	1.1 Assist SDG&E employees in their understanding of fire prevention and to improve their ability to prevent the start of any fire. The emphasis will be on wildland fires, especially during the critical times of the year when the fire risk is high.					
	<mark>1.1.2</mark>		ols and equipment to be present in vehicles ponse to small fires in the event one should				
	1.1.3	provide compliance with place. This would include	ral, and local requirements into our standar rules and regulations on a daily basis no m de, but not be limited to: pertinent laws, For al Use Permit" or "Right of Way" fire related	natter where work is taking est Standard Practice			
	1.1.4	other unique fire danger are in effect, what activit	rictions mandated by "Red Flag Warnings", scenarios. Provide the means for determine ties they prohibit, the precise locations to w res for all affected employees and contractor	ning when these restrictions hich they apply; and identify			
	<mark>1.1.5</mark>		rees and contractors have positive commune. e. Dialing 911 is the primary means for re				
	1.1.6	Discuss procedure to ide the process for developi	entify when a Construction project specific '	'Fire Plan" is required and			
	1.1.7		ense practices, with regards to fire safety, th isk of fires and to prevent injury to employe				
	1.1.8		e use of the "Fire Potential Index" to detern s are advised or required.	nine when additional fire			

APPLICABILITY 2.0

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



ELECTRIC STANDARD PRACTICE

No. Page 2 of 15

SECTION GENERAL PF SUBJECT TITLE	RATIONS AND MAINTEN	DISTRIBUTION ENGINEERING	JULY 26, 2016		
SUBJECT TITLE	RATIONS AND MAINTEN	IANCE WILDLAND FIRE PREVENT			
		IANCE WILDLAND FIRE PREVENT			
	010				
3.0 DEFINITI					
		es that present a risk of igniting a wildfire			
		fers to any area within the SDG&E serv			
	uels available for ignition.		ice terniory that has wildiand		
Ci e:	ombination of potential fire b stablished practices within th	s is a CALFIRE developed rating of wild ehavior (fuel rank) and expected fire fre ne FTZ on how SDG&E constructs facili to be used within the FTZ. See attachm	quency. SDG&E has ties and also determines		
re to la th	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.				
C p	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.				
fc e th a F	3.6 Fire Potential Index (FPI) (1-17): This 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 used for work activities. The FPI is used to determine the fire potential range for each day (Normal, Elevated, or Extreme), definitions of each to follow.				
3.6.1	3.6.1 Normal Fire Potential (1-11): It is considered "Normal" when the FPI is green. All O&M activities can take place in the wildland areas of the service territory without additional risk mitigation, as long as baseline fire equipment is available as prescribed in this plan. Note: the baseline fire equipment requirements meet or exceed all local, state, & federal requirements for working in the wildland areas.				
3.6.2	3.6.2 Elevated Fire Potential (12-14): It is considered "Elevated" when the FPI is either yellow or orange. Certain "at risk" O&M activities (as identified in the matrix, attachment 2) will require additional risk mitigation (as prescribed in the matrix, see attachment 2) to perform those work activities.				
3.6.3 Extreme Fire Potential (15-17): It is considered "Extreme" when the FPI is red. No "at risk" activities should be conducted except for those activities which if, left undone present a greater risk than that involved with their accomplishment. Consultation with the On-duty Fire Coordinator is required to help make that determination and identify additional mitigation required to reduce risk.					
			<u>_</u>		
HAL MORTI	EK	MAURIZIO DE JULI	O ESP TEMPLATE- Nov2014 / GJC - EDE		



ELECTRIC STANDARD PRACTICE

No.

A 🔏 Sempra Ene	rgy utility ELEC1	RIC STANDARD PRACTICE	Page 3 of 15		
DEPARTMENT		DIVISION	EFFECTIVE DATE		
TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016					
	PRACTICES				
	FRATIONS AND MAINTE	NANCE WILDLAND FIRE PREVENTION			
SDOAL OF		HANCE WIEDEAND FIRE FREVENING			
3.7	Red Flag Warning (RFW): expected to meet either of t	The National Weather Service will declare ne following criteria:	a RFW when conditions are		
3.7.1	frequent gusts equal to (based on wind/relative	% or less with sustained winds equal to or g or greater than 35 mph for a period of 6 hrs humidity) will be considered "Extreme" ope period and have the same restrictions desc	s or more. This RFW erating condition regardless		
3.7.2	significantly wet fuels t inland and mountain zo Meteorology and Fire (htning event that is not accompanied by en nat have been identified as critically dry. Th ones. This RFW (based only on dry lightnin Coordination to determine the appropriate o ons, and Grid and Dist. Ops. will notify field	nis is common within the g) will be assessed by perating condition related to		
3.8	only applies to work within t	L): This term is specific to the Cleveland N he boundaries of the CNF. When conduction hasibility to know the PAL level and adhere to asures.	ng work on the CNF it is		
3.9	Fire Tools:				
3.9.1	Shovel: standard roun	d point shovel with overall length of at least	46".		
3.9.2	Pulaski: an axe-like fir	e hand tool used for cutting, chopping or gr	ubbing.		
3.9.3	McLeod: a fire hand to	ol used for raking and scraping.			
3.9.4	extinguishing Class A	portable 5 gallon water pack with hose and common combustibles) fires and primarily as or stainless steel canisters.			
3.9.5	equipment when neces	d in a staging area or worksite to suppleme sary due to excessive work activity. It gen pack pumps as deemed appropriate.			
3.10	activities or staging of resources are typically large in si	ea: It will be considered a major operations rces will be concentrated in and out of a sta ze and include but are not limited to constru er area where construction work will be cor	aging facility. These work iction yards, fly yards,		
3.11	Fire Patrol:				
3.11.1	accountability for fire p	ol" is a member of a work crew assigned th revention, risk mitigation, early detection of one occur. This can be accomplished co-la	fires, and rapid		
3.11.2	prevention, risk mitigat	I" is a person(s) assigned the responsibility ion, early detection of fires, and rapid exting uty while serving as a dedicated Fire Patro	guishment should one occur.		
ISSUED BY		APPROVED BY			



No.

A Sen	npra Ener	gy utility ELECT	RIC STANDA	ARD PRACTICE	F	age 4 of 15	
		STRIB. ENGINEERING		ON ENGINEERING	EFFECTIVE DATE	2016	
SECTION	ECTION						
SUBJECT TITI	GENERAL PRACTICES						
SDG8	SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN						
3.	12	SDG&E Fire Coordinator (FC): The SDG&E Fire Coordinator serves as a conduit or liaison to the emergency service agencies for the utilities for everyday operations as well as emergency incidents. The FC will help the emergency service agencies obtain their needs related to the utility and represent the utility needs to the emergency service agencies.					
3.	13	SDG&E Incident Command emergency incidents. SDG& resources (people and equip identify who the SDG&E IC generally be the IC on low co overall Incident Commander	E will positively ment) on any e will be on moder omplexity incide	r identify a single point mergency incident. Th rate or complex incider nts. The IC will coording	of contact for all s the appropriate line tts. "First- in" sup	SDG&E authority will ervisor will	
3.	14	Operations & Maintenance SDG&E facilities.	e (O&M): O&M	refers to post construct	tion care and mai	ntenance of	
4.0 <u>P</u>	ROCE	DURE					
4.		General: SDG&E personne fire risk and exposure involv equipment;					
	4.1.1	Fire Prevention: all wor be assessed with regar that pose risk and can t appropriate mitigation n all risk cannot be elimin	d to fire risk dur be excluded will neasures to red	ing standard safety tail be. Those that cannot uce the risk where pos	board sessions. The eliminated will sible, and in those	Those activities I incorporate	
	4.1.2	Immediate or Early Fire earliest stages by assig as well as training all pe "Elevated", and "Extrem	ning designated ersonnel to esta	l (co-lateral duty) and c blish good situational a	dedicated Fire Pa	trols (sole duty)	
	4.1.3	Rapid Extinguishment: worksite and immediate				hin 50' of	
4.	2	Tools & Equipment: When and equipment are required work is in a wildland area ou does not apply to transient to items will meet the California Making this equipment avails mandated by the wildland fir Some additional project spee discussed in the following se 50' from the vehicle locati vehicle and staged at the vehicle and staged at the vehicle spee	as a minimum tside the FTZ it raffic driving on a Forest Practice able at your wor e agencies with cific or weather s ction of this plan on, the mandat	and will be carried on t is recommended you u primary road beds thro e Rules; Public Resour k sites will also meet th in the company service specific requirements m n. Please note that if	the vehicles as de use these same s ough the wildland ce Code Division ne majority of the e territory. nay be necessary your work proje	escribed. If tandards. This areas. These 4, Chapter 6. requirements and will be ct is over	
ISSUED B	Y			APPROVED BY			



A 🔏 Sempra Energy 🛛	itty ELECT	RIC STANDARD PRACTICE	Page 5 of 15				
TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016							
GENERAL PRA	GENERAL PRACTICES						
	ATIONS AND MAINTE	NANCE WILDLAND FIRE PREVENTIC	ON PLAN				
4.2.1	Passenger Vehicles (pe	erforming 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	extinguisher label	extinguisher, minimum U.L. rated "2 BC"; rat (a "2" rated extinguisher will put out approx adicates it will work on flammable liquids and	. 2 sq. ft. of combustible				
4.2.2	Trucks & 4 Wheel Drive	e 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 backp	ack pump					
4.2.3	Heavy Machinery or Ec 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 backp	ack pump					
4.2.4	Chain Saw Use;						
4.2.4.1	1 shovel within 25	feet of the chainsaw operation with unrestri	icted access to the tool.				
4.2.4.2	1 serviceable UL r	ated 2BC fire extinguisher in their immediat	e possession.				
4.2.5	area a Fire Box or equi	Area (When vehicle equipment does not m valent should be located on site and be acc n total tools to outfit number of personnel or	essible to all personnel and				
4.2.5.1	1 (5) gallon backp	ack pump					
4.2.5.2	2 Pulaskis						
4.2.5.3	2 McLeod fire tool	S					
4.2.5.4	Round point shove	els 46" (enough to outfit remaining personne	el)				
4.3 Fire Risk & Mitigation Matrix: The following matrix is designed to blend the fire risk associated with a specific work activity with the fire potential index for the day to establish the proper fire prevention measures required in each scenario. Most of the work activities can be done daily simply by having the required equipment from section 4.2 available, serviceable, and proximate work site. Some activities involve more risk and may require additional mitigation measures. Fire potential is determined by the daily Fire Potential Index. Green on the FPI is considered Normal Fire Potential. Under Normal the baseline tool & equipment requirements from sect 4.2 suffice, except for specifically noted exceptions. Elevated Fire Potential is when the FPI is the yellow/orange range and certain work activities may require additional mitigation measures order to proceed with the work; again refer to matrix. The supervisor responsible for the work activity will document how the additional mitigation will be met for the day's activities. This can done in conjunction with normal tailboard documentation or as separate documentation.							

ISSUED BY	APPROVED BY
HAL MORTIER	MAURIZIO DE JULIO



SDGE			No.				
A Sempra Energy utility	ELECTRI	C STANDARD PRACTICE	Page 6 of 15				
DEPARTMENT TRANS. & DISTRIB. SECTION GENERAL PRACTI	ENGINEERING	DISTRIBUTION ENGINEERING	EFFECTIVE DATE JULY 26, 2016				
SUBJECT TITLE							
perform consult mitigatic has in fa	Extreme Fire Potential is the red on the FPI and most work activities will cease, except where r performing the work creates a greater risk than doing so. In those cases where work will be done consult with On-duty Fire Coordinator ((858) 503-5152) and check matrix to see if additional mitigation is required. The supervisor responsible for the work activities will document that work has in fact ceased or why it was acceptable to continue. If Fire Coordination is consulted they to will document when a joint decision to continue work is made.						
	Normal	Elevated	Extreme				
1	< 12	12-14	15-17				

ISSUED BY	APPROVED BY
HAL MORTIER	MAURIZIO DE JULIO



No.

Sempra Energy utility	ELECTRI	C STANDARD PRA	ACTICE	Page 7 of 15			
				ECTIVE DATE			
ANS. & DISTRIB	. ENGINEERING	DISTRIBUTION ENG	INEERING JU	JLY 26, 2016			
ENERAL PRACT	ICES						
JG&E OPERATIO	ONS AND MAINTENA	ANCE WILDLAND FIF	REPREVENTION F	'LAN			
	FIRE RISK & MITIGATION MATRIX						
	1						
The work acti	vity described can be pe	erformed to the operating	a level indicated unles	s specifically noted			
that it cannot,	or by meeting the minin	num additional mitigatio	n requirements indica	ted for that level.			
	the baseline tool requir						
	Note; a "designated" Fire mitted to fire prevention						
only the work	where not performing th	ne work creates a greate					
Coordination	for special mitigation rec	uirements.	-				
Work	Work Activity	NORMAL Operating	ELEVATED Operating	EXTREME Operating			
Activity	Description	Conditions	Conditions	Conditions			
Vehicle, Road	ds, Inspections						
	On paved roads or						
Vehicle travel	improved roads with no vegetation on	4	4	4			
liavei	roadbed						
				Permitted only for			
	Off road vehicle trave	1	Must designate a	work that meets			
Vehicle travel	and un-maintained	4	Fire Patrol	the extreme criteria and must have a			
liavei	roadbeds		(Document)	dedicated Fire			
				Patrol			
	Ground, aerial,						
Inspections	security, climbing, vegetation, and week	4	4	Must follow vehicle travel rules above.			
	control inspections		100				
			Must designate a				
Access	Vegetation removal,		Fire Patrol				
Road	water bars, culvert cleaning/repair,	4	(Document) and 150 gal. of water	Not Permitted			
Maintenance	grading		and equipment for				
			its use				

APPROVED BY



/ Pole hole

Pole

Replacement

/ Pole hole

digging

digging

vegetation on roadbed

Replacement of existing power pole Off road

vehicle travel and on

unmaintained roadbeds

No.

ELECTRIC STANDARD PRACTICE empra Energy utility Page 8 of 15 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 of water and Replacement 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)

ISSUED BY APPROVED BY HAL MORTIER MAURIZIO DE JULIO

Must designate a Fire Patrol

(Document) and

150 gal. of water

and equipment for

its use

Not Permitted



Page 9 of 15

DEPARTMENT

SECTION

TRANS. & DISTRIB. ENGINEERING

DIVISION DISTRIBUTION ENGINEERING EFFECTIVE DATE

GENERAL PRACTICES

SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN

					
Vegetation	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	4		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
Other	r Activities				
Welding or Grinding	Welding or grinding will always require that it be done in an area 10' minimum clearance to mineral soil or equivalent	Must designate a Fire Patrol (Document)		Must have a dedicated Fire Patrol	Not Permitted
Blasting	Any work using explosives must have permit with restrictions identified	Must designate a Fire Patrol (Document)		Must designate a Fire Patrol (document) and 150 gal. of water and equipment for its use	Not Permitted
Combustion Engines	Compressors, generators, etc. must have 10' minimum clearance or equivalent from the heat source	4		Must designate a Fire Patrol (Document)	Permitted only for work that meets the extreme criteria and must have a dedicated Fire Patrol
Activities not covered by the <i>Matrix</i> that do not fit with an identified work activity require consultation with the On-duty Fire Coordinator for approval and/or additional mitigation requirements.					
ISSUED BY APPROVED BY					
HAL MORTIER			RIZIO DE JULIO		



No. Page 10 of 15

TRANS. & DIST	RIB. ENGINEERING		ION ENGINEERING	EFFECTIVE DATE JULY 26, 2016
GENERAL PRACTICES				
SUBJECT TITLE SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN				
SDG&E OPERA	ATIONS AND MAINTEN	ANCE WILD	LAND FIRE PREVENTION	JN PLAN
4.3.1	Optional considerations for particularly hazardous or high risk areas where additional mitigation measures are warranted (discuss with On-duty Fire Coordinator)			
4.3.1.1	Small fire engine or	patrol unit with	h minimum 150 gallons of w	/ater
4.3.1.2	Cache of fire hose a	and related acc	cessories	
4.3.1.3	Water supply; wate	r tender, truck,	or hydrant (1500 gal. recor	nmended)
4.3.1.4	Dozer or tractor, ca	pable of produ	cing fire line	
4.3.2	Helicopter Operations: 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.			
4.4 Ger	neral Fire Prevention Cons	siderations:		
4.4.1 It is required on projects in the SDG&E FTZ (and recommended in any wildland area) to conduct a formal "tailboard" safety session all fire concerns. All fire concerns will be documented, including designated or dedicated fire patrol, mitigation measures taken, and extinguishment plans for any at risk work for the day.				
4.4.2	Smoke only in designated smoking areas or in a 10' clearing void of all grass or other vegetation.			
4.4.3	Idling your vehicle in areas of brush, grass, or other vegetation is prohibited. When parking in these areas; shut off vehicle and check vehicle undercarriage for any threat of fire ignition.			
4.4.4	When driving over grass meadows or areas of low vegetation, have a designated Fire Patrol follow along with fire tools available to extinguish an inadvertent fire start. If traveling alone, you become the designated fire patrol, frequent observations of the ground behind you should be made with fire tools ready and available and this should not be done in elevated or extreme conditions.			
4.4.5	At work sites have all required tools available and within 50' of the work activity. Tools should be serviceable and ready for use.			
4.4.6 When using any piece of equipment capable of producing sparks and/or which has an exposed exhaust system, provide an area with 10' clearance or equivalent from the heat source and at a minimum assign and document a designated Fire Patrol during elevated and extreme conditions.				
4.4.7	All internal combustion engines shall have approved spark arresters.			
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 engines are exempt.			
4.4.8	When it is possible, wet down adjacent vegetation when performing at risk work in the wildland areas.			
4.4.9	Consider work hour restrictions in the wildland areas avoiding particularly hazardous work during the hottest portions of the day.			
ISSUED BY	ISSUED BY APPROVED BY			
HAL MORTIEF	?		MAURIZIO DE JULIO	



ELECTRIC STANDARD PRACTICE

No.

A Sempra Energy utility		ELECT	LECTRIC STANDARD PRACTICE		Page 11 of 15	
					EFFECTIVE DATE	
TRANS. & DISTRIB. ENGINEERING DISTRIBUTION ENGINEERING JULY 26, 2016				JULY 26, 2016		
GENERAL PRACTICES						
SUBJECT TITLE SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN						
SDG&E OP	ERATIONS AND	MAINTER	NANCE WILDLAND FIRE	PREVENTIO	N PLAN	
4.4.10 When it is possible, wet down adjacent vegetation when performing at risk work in the wildla areas.			at risk work in the wildland			
4.4.11		consider work hour restrictions in the wildland areas avoiding particularly hazardous work uring the hottest portions of the day.				
4.5 General Fire Safety Considerations: As previously indicated, fire prevention is the primary focus of all of our efforts. We do carry the proper equipment to rapidly extinguish a witnessed ignition or very small fire that is within our capabilities to take action on. If at any time the fire becomes unmanageable or unsafe for you to continue your suppression actions, you should stop and retreat to a safe area. If work activities require personnel to perform utility related work adjacent to or near an uncontrolled wildfire the following considerations become important for your safety (See below).					ish a witnessed ignition or me the fire becomes rou should stop and retreat d work adjacent to or near	
4.5.1	When working	Use proper Personal Protective Equipment (P.P.E.), standard SDG&E requirements apply. When working within or adjacent to uncontrolled fire perimeter company issued fire resistant clothing should be worn.				
4.5.2	internally usin communicate for the duratic of the SDG&E resources), th	en working on or adjacent to a wildland fire, positive communications must be maintained rnally using SDG&E work protocols. It is critical that employees have the ability to municate with fire agencies for reporting fires and for the exchange of critical information the duration of an incident. Cross communication with the fire agencies is the responsibility to SDG&E Incident Commander (single point of contact assigned to manage all SDG&E pources), the Fire Coordinator (FC), or the On- Site (pre-designated work supervisor for cted area) Supervisor in the absence of a Fire Coordinator or SDG&E Incident nmander.				
4.5.3		what the fire is doing at all times, observe personally or be in direct communication with etent person (IC, FC, or On-Site Supervisor) who is monitoring fire activity.				
4.5.4	Understand th and check out	vithin the Incident Command System (ICS) while assigned to a fire incident. stand the chain of command for the incident and who you are accountable to. Check in eck out when entering an uncontrolled fire perimeter after it is determined to be safe by FC, or on-site SDG&E Single Point of Contact.				
4.5.5	escape routes	evaluate and designate safety zones (areas large enough to provide a safe retreat) and pe routes (safe access to these safety zones) when working in the wildland areas during fire danger days.				
4.5.6		Get proper rest and adequate water during extended fire activity to avoid fatigue and help prevent accidents and/or injuries.				
4.5.7	of falling rocks	s, trees, an	n when driving within a fire a d other debris as well as roa en visibility is limited.			
ISSUED BY			APPROVED BY			

SDGE
A Sempra Energy utility

ELECTRIC STANDARD PRACTICE

No. Page 12 of 15

R			
	ISTRIB. ENGINEERING		effective date JULY 26, 2016
SECTION	131 RID. ENGINEERING	DISTRIBUTION ENGINEERING	JULI 20, 2010
GENERAL SUBJECT TITLE	PRACTICES		
	PERATIONS AND MAINTEN	JANCE WILDLAND FIRE PREVEN	TION PLAN
4.6	Red Flag Warnings/Extreme National Weather Service. Its occupants in the wildland are activities. There are currently RFW. One is wind related, al "Extreme" operating condition that without performing it wou and is issued when areas of " Coordination and Meteorolog the RFW. RFW are generally territory. The wind/relative hu service territory and can be e between Fire Coordination ar group. In either case work re allow (exempt) work necessa document the exemption. If r	Fire Potential Index: Red Flag Warn intent is to pass along critical fire wea as to bring about more prudent actions two basic criteria (see definitions under ong with extreme dryness, and this R automatically and all work activity will ld create a greater risk. The second R dry" lightning are imminent. During th y will confer to determine the operating v issued for various weather zones that umidity RFW will apply to all identified xpanded to exclude weather zones if n and Meteorology. Extreme FPI is issued strictions likely apply, see 4.3. Super ry to mitigate an immediate fire risk. The equired the On-duty Fire Coordinator of	ings (RFW) are issued by the ther information to users and s in all of their wildland related er RFW) for establishing a FW will be considered I cease except for such work RFW criterion is lightning related is type of RFW, Fire g condition for the duration of it transect the SDG&E service weather zones within SDG&E eccessary after consultation d by SDG&E Meteorology visors will retain authority to he supervisor will be required to can provide assistance with the
4.7	 decision and documentation process. During pre-event conference calls Fire Coordination will remind affected parties of work restrictions as they relate to the particular event. Project Activity Levels: The United States Forest Service has a program it utilizes to reduce the risk of fire on National Forest land, particularly in the timber or mountain areas. It is referred to as Project Activity Levels (<i>PALS</i>). Each day at 4:00 p.m. the PAL will be announced for the following day. It may be different for different geographical areas in the county. IT ONLY APPLIES TO THE CLEVELAND NATIONAL FOREST. This information is available by calling (619) 557-5262. The PAL index will determine what activities can be done on the forest the following day and what risk mitigation can be done to be allowed to do additional work activities. The CNF O&M Fire Prevention plan must be followed when working on USFS lands (contact On-Duty FC for current version: (858) 503-5152). 		
4.8	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 throug On major projects there may fire agency that will be incorp	e Plans: This Wildland Fire Prevention ties performed in the wildland by all SD side of normal work activities or for an a coordination group should be consulte ildland Fire Prevention plan is sufficien onal mitigation will suffice, or if a project C will work with the Project Manager of h to approval, and monitor compliance be additional requirements assessed b orated as required into the project spec	OG&E employees and activity that seems to be ed. The FC will make a t for the prescribed work, this t specific Fire Prevention Plan r representative to develop the with the plan as appropriate. y the CPUC or a jurisdictional cific Fire Prevention Plan.
4.9	given area have the authority are experiencing a critical sho incumbent on them to insure	Proclamations: The Fire Chiefs with ju to proclaim certain restrictions in extre ortage of resources. These cases will b we are informed of any temporary char tion we would be required to comply as	me fire conditions or when they be very rare and it will be nges in fire restrictions for a
ISSUED BY		APPROVED BY	
HAL MOR	TIER	MAURIZIO DE JUL	10



ELECTRIC STANDARD PRACTICE

No. Page 13 of 15

6

DEPARTMENT	DIVISION	EFFECTIVE DATE
TRANS. & DISTRIB. ENGINEERING	DISTRIBUTION ENGINEERING	JULY 26, 201
SECTION		
GENERAL PRACTICES		
SUBJECT TITLE		
SDG&E OPERATIONS AND MAINTEN	ANCE WILDLAND FIRE PREVENTIO	N PLAN

4.10 Fire Related Training: It is mandatory that all field going employees have basic wildland fire prevention training on an annual basis. If an employee who does not have wildland fire prevention training chooses to go to the field they will be escorted by someone who has had the training and has the required tools for both employees. . Wildland Fire Prevention training (SFUGN103) will be incorporated into annual Compliance Training and documented through using this process. The training can be accomplished in one hour at a routine safety meeting just prior to fire season or schedule sessions specifically for this purpose. For those employees who are likely to be asked to work within or immediately adjacent to an uncontrolled fire area, the following additional training is recommended: Two hours total consisting of Fire Safety, Incident Command System, and basic fire behavior training. For supervisors, managers, and company officers, who could be assigned as the SDG&E Incident Commander or EOC "Officer in Charge" on a major incident, additional advanced ICS training is recommended. The Fire Coordinator group will provide this training or assist with arranging gualified instruction. The FC may bring in additional gualified instructors, or qualify additional SDG&E employees as instructors, using the "train the trainer" approach to assist with this effort. Documentation of this training shall be done by the work supervisors and recorded in the employee's training records.

4.11 **EOC and Control Centers:**

- 4.11.1 Service Dispatch, Electric Distribution Operations, Electric Grid Operations, and the EOC play a vital role in any fire emergency. Communications with these groups, when applicable, is critical. Provide information updates and feedback to each of these groups as their areas of responsibility becomes affected. This should continue through the duration of the incident. As this standard practice governs the fire prevention aspects of an event, Distribution Operations and Grid Operations manage the System Operation and all protocols in TSP-1320, DOP3013, & ESP109 must be complied with.
- 4.11.2 Early notification to the EOC of potential activation is recommended when appropriate. Notification procedures are identified in ESP 113 FIRE COORDINATION and should be followed as prescribed.
- 4.12 Fire Coordination: SDG&E has (6) full-time Fire Coordinators and additional qualified assistance within the company. They are essentially the liaison for the company to the Emergency Response agencies. Questions related to this plan or request assistance on any emergency should be made through the FC group.

5.0 REFERENCES

- 5.1 State Forest Standard Practice Act: http://www.fire.ca.gov/resource_mgt/downloads/2015%20FP%20Rulebook_with%20TRA%20No%201_Final.odf
- TMC 1320 (aka DOP3013, ESP109 SDG&E Fire Conditions) 5.2
- ESP 113 FIRE COORDINATION 5.3
- 5.4 Power Line Fire Prevention Field Guide - 2008 edition http://cdfdata.fire.ca.gov/pub/fireplan/fpupload/fppguidepdf126.pdf

ISSUED BY	APPROVED BY
HAL MORTIER	MAURIZIO DE JULIO



Page 14 of 15

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

SUBJECT TITLE

SDG&E OPERATIONS AND MAINTENANCE WILDLAND FIRE PREVENTION PLAN

6.0 REVISION HISTORY

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

7.0 <u>ATTACHMENTS</u>

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

ISSUED BY	APPROVED BY
HAL MORTIER	MAURIZIO DE JULIO



No.

