

APPENDIX 4.8-B

**SALT CREEK PROJECT FIRE PLAN FOR
SALT CREEK SUBSTATION PROPONENT'S
ENVIRONMENTAL ASSESSMENT (PEA)**

Prepared by
San Diego Gas & Electric Company
8315 Century Park Court
San Diego, CA 92123

August 2013

SDG&E PROJECT FIRE PLAN

Project Name: Salt Creek Project (Salt Creek Substation and TL6965)

Project Manager: Trinnon Myers

Contract Administrator: _____

PROJECT DESCRIPTION:

General location: The Salt Creek Substation site and the majority of TL6965 are located in the eastern portion of the City of Chula Vista, California. A small segment of the Tieline (approximately 4,700 linear feet) in the northernmost portion of the alignment is located in the unincorporated portion of San Diego County on SDG&E-fee-owned land surrounding the existing Miguel Substation. TL6965 will begin at the existing San Miguel Substation and run southerly to the new Salt Creek Substation at Hunte Parkway. The entire project is within Local Responsibility Area (Chula Vista Fire Department and Bonita Sunnyside Fire Protection District). Only the beginning and ending portions (unit 1 & 2 of attachment #1) of the TL and the new substation lie within the SDG&E Wildland Fire Threat Zone (FTZ), which is classified as very high.

Fire Jurisdiction & Adjacent Land Ownership:

Ownership:	Fire Responsibility:	Miles/Acres:	Contact Number:
Private/City	LRA – Chula Vista FD	4 miles	619-409-5837
Private/City/County	LRA – Bonita Sunnyside FPD	1 mile	619-479-2346

Provide a brief narrative of scope and intent of proposed project:

The Proposed Project includes:

- Construction of a 120-megavolt ampere (MVA) 69/12-kilovolt (kV) Salt Creek Substation, including construction and operation of underground 12-kV distribution circuits
- Construction and operation of a five-mile-long 69-kV power line 6965 (TL6965), from the existing Miguel Substation to the proposed Salt Creek Substation, and construction and operation of a 69-kV power line loop-in (TL6910) to the Salt Creek Substation. TL 6965 would be located above ground except for the final 1,000 feet at the Salt Creek Substation that would be installed underground.
- Modifications at the Miguel Substation including installation of a new 69-kV power line position.

Provide a brief narrative of project timeframes; specifically address length of project and time of year in which it will be accomplished: Project construction is scheduled to begin in approximately September 2014 and end approximately March 2016.

Describe all work activities that will be done in the SDG&E FTZ:

- Grading for substation pad, road maintenance and pole foundations
- Digging/drilling for new poles/towers
- Pole/tower erection & setting
- Operation of generators, compressors, chain saws or other internal combustion engines.
- Welding/cutting of steel
- Helicopter operations
- Construction meetings at the staging yard
- Stringing of conductor
- Environmental monitoring

PROJECT FIRE RISKS:

The following are work activities associated with the project that present a fire risk; where they apply, to what extent they apply, and general time frame they are applicable:

<u>Operational Risk:</u>	<u>Location on Project:</u>	<u>Miles or Acres on Project:</u>	<u>Time of year and duration:</u>
Working on energized electrical equipment.	Located throughout the project area but specifically within the very high/extreme FTZ.	5 miles	9/2014 through 3/2016
Off-pavement vehicle operation within project area with flammable vegetation adjacent.	Located throughout the project on Power Line access roads	5 miles	9/2014 through 3/2016
On roadway activities in particularly hazardous wildland vegetation areas.	Located throughout the project area but specifically within the very high/extreme FTZ.	5 miles	9/2014 through 3/2016
Chain saw, generators, pumps, or other internal combustion engines of any kind.	Located throughout the project area but specifically within the very high/extreme FTZ.	5 miles	9/2014 through 3/2016
Use of graders, drills, backhoes, or other equipment capable of rock to blade contact sparking ignition.	Located throughout the project on Power Line access roads	5 miles	9/2014 through 3/2016
Grinding, cutting, or welding of equipment or construction material.	Located throughout the project area but specifically within the very high/extreme FTZ.	5 miles	9/2014 through 3/2016
Blasting or other explosive work.	A specific blasting plan will be developed if blasting is required	5 miles	9/2014 through 3/2016

PROJECT FIRE RISK MITIGATION MEASURES:

<u>Operational Risk:</u>	<u>Risk Mitigation Description:</u>
Working on energized electrical equipment.	When accessible by motor vehicle, have water tender (minimum 500 gallons w/pump and hose) available within 2 minutes of work site. For inaccessible areas or longer time delays stage personal firefighting equipment within 50' of work activity. Personal firefighting equipment shall include a minimum of three 5 gallon backpack pumps w/water and a shovel or Pulaski for each worker. Designate a "Fire Patrol". Consider the use of a stand-by fire crew/engine on high fire danger days. Contact Contract Administrator for daily and predicted fire danger assessment.

<u>Operational Risk:</u>	<u>Risk Mitigation Description:</u>
Off-pavement vehicle operation within project area with flammable vegetation adjacent.	Do not park or idle over vegetated areas. If access must be made over these areas designate a "Fire Patrol" with fire equipment to follow vehicles and /or equipment on foot to rapidly extinguish possible starts. Water tenders can be deployed to reduce this risk as well and should be located within 2 minutes.
On highway activities in particularly hazardous wildland vegetation areas.	Do not park or idle immediately adjacent to wildland fuels. Designate a "Fire Patrol" to prevent ignition or immediately extinguish any fire start. Have water tender (minimum 500 gallons w/pump and hose) available within 2 minutes of work site.
Chain saw, generators, pumps, or other internal combustion engines of any kind.	Assure equipment has approved spark arrestor. 5# BC Fire Extinguisher or 5 gallon backpack pump w/water and a shovel must be within 25' of any combustion engine. A "Fire Patrol" should be designated to be a lookout and immediately extinguish any fire start.
Use of graders, drills, backhoes, or other equipment capable of rock to blade contact sparking ignition.	Have water tender (minimum 500 gallons w/pump and hose) available within 2 minutes of work site. 5 gallon backpack pump w/water and a shovel must be within 50' of any equipment use. A "Fire Patrol" should be designated to be a lookout and immediately extinguish any fire start.
Grinding, cutting, or welding of equipment or construction material.	Do not perform on very high to extreme fire danger days. Clear immediate area of all flammable vegetation to 10' diameter. Use non-flammable aprons/curtains. 5 gallon backpack pump w/water and a shovel must be within 50' of any equipment use. A "Fire Patrol" should be designated to be a lookout and immediately extinguish any fire start. Check for fire weather watches and warnings; http://www.wrh.noaa.gov/sto/cafw/ . Call on duty Fire Coordinator for fire questions; (858) 503-5152 .
Blasting or other explosive work.	Requires blasting specific fire plan and permit from local jurisdiction.

STAGING AREAS AND MAJOR OPERATION WORK SITES:

List all staging areas and major operations work sites within project that are located in the SDG&E FTZ:

<u>Staging Area or Major Operations Work Site:</u>	<u>Hazard Reduction or Fire Risk Mitigation Description for each site:</u>
<ol style="list-style-type: none"> 1. Miguel Substation 2. Miguel/Existing Staging 3. Salt Creek Substation 4. Hunte Pkwy Staging 5. Eastlake Pkwy Staging 	<p>All staging areas and major operations work sites will have sufficient hazard reduction so as to reduce the threat of ignition and spread of a wildland fire. Any work, as noted under Operational Risk, performed in these areas will follow the same mitigation measures. All parking shall be done in designated areas which are void of flammable vegetation. Smoking will only be permitted in designated areas and all butts and matches disposed of in approved reciprocals. Hazard reduction mowing in and around the staging area as well as water tender should be used as necessary to reduce the fire danger.</p>

PROJECT SPECIFIC TOOLS & EQUIPMENT REQUIREMENTS:

All trucks shall be equipped with fire tools (shovel, Pulaski, & 5 gallon backpack pump). Consideration should be given to a dedicated wildland fire engines and crew or equivalent (four wheel drive, water tank of at least 150 gallons, a pump capable of at least 100 psi, 100' of 1" fire hose and nozzle, and one type 2 firefighter) for fire standby on particularly hazardous fire danger days.

PROJECT SPECIFIC SCHEDULE RESTRICTIONS:

When working in those identified “very high” risk fire danger areas, all work will cease during periods of declared Red Flag Warnings or other severe fire weather conditions as identified by company officials. Special exemption can be made after consultation with the Fire Coordinator for those activities that present greater risk if left unfinished. The Local Fire Department, Fire Coordinator, or Contract Administrator may restrict any/or all daily work activities due to fire danger or other hazardous conditions. Daily work scheduling should limit high risk work activities between the hours of 1:00 p.m. and 3:00 p.m. when possible.

FIRE SAFETY TRAINING/BRIEFINGS:

All workers shall receive basic wildland fire safety training prior to working on the project. This training shall include fire prevention, notification responsibilities, and suppression tools & methods. The training may be provided by either the contractor or SDG&E.

A pre-project fire briefing for all project personnel shall take place prior to project initiation. This document should be reviewed in its entirety. The Fire Coordinator should take part if available.

Each work day, in the formal tailboard safety session, a discussion should take place regarding the day’s fire related risks and hazards as they are associated to the day’s activities. Mitigation’s should be discussed to eliminate or minimize those risks. A designated fire patrol shall be assigned and their day’s responsibilities discussed with the group during the morning tailboard.

HELICOPTER OPERATIONS SAFETY PLAN:

If the project requires the use of helicopters and involves landing or taking off in areas within or adjacent to wildland fuels and vegetation, special mitigations are required.

- Identification of all landing areas within the SDG&E FTZ.
- Assess the wildland hazard for each helicopter site and provide on the ground fire suppression equipment identified above within 50’ of the aerial work area.
- Have a fueling safety plan available if refueling takes place on the project location.
- Identification of any special fire tool and/or equipment requirements for each landing site where applicable.
- Designate a “Helicopter Safety Officer” or manager responsible for compliance with the plan during all helicopter operations.

IN CASE OF FIRE OR OTHER EMERGENCY:

- In the event of a fire or other emergency call **911**, providing location and type of emergency.

FIRE DEPARTMENT INSPECTION: *(Fire Coordinator determination)*

- _____ Required ___ Recommended BM Not required

PLAN APPROVAL:

Prepared by:

S/ Bill Molumby
Fire Coordinator

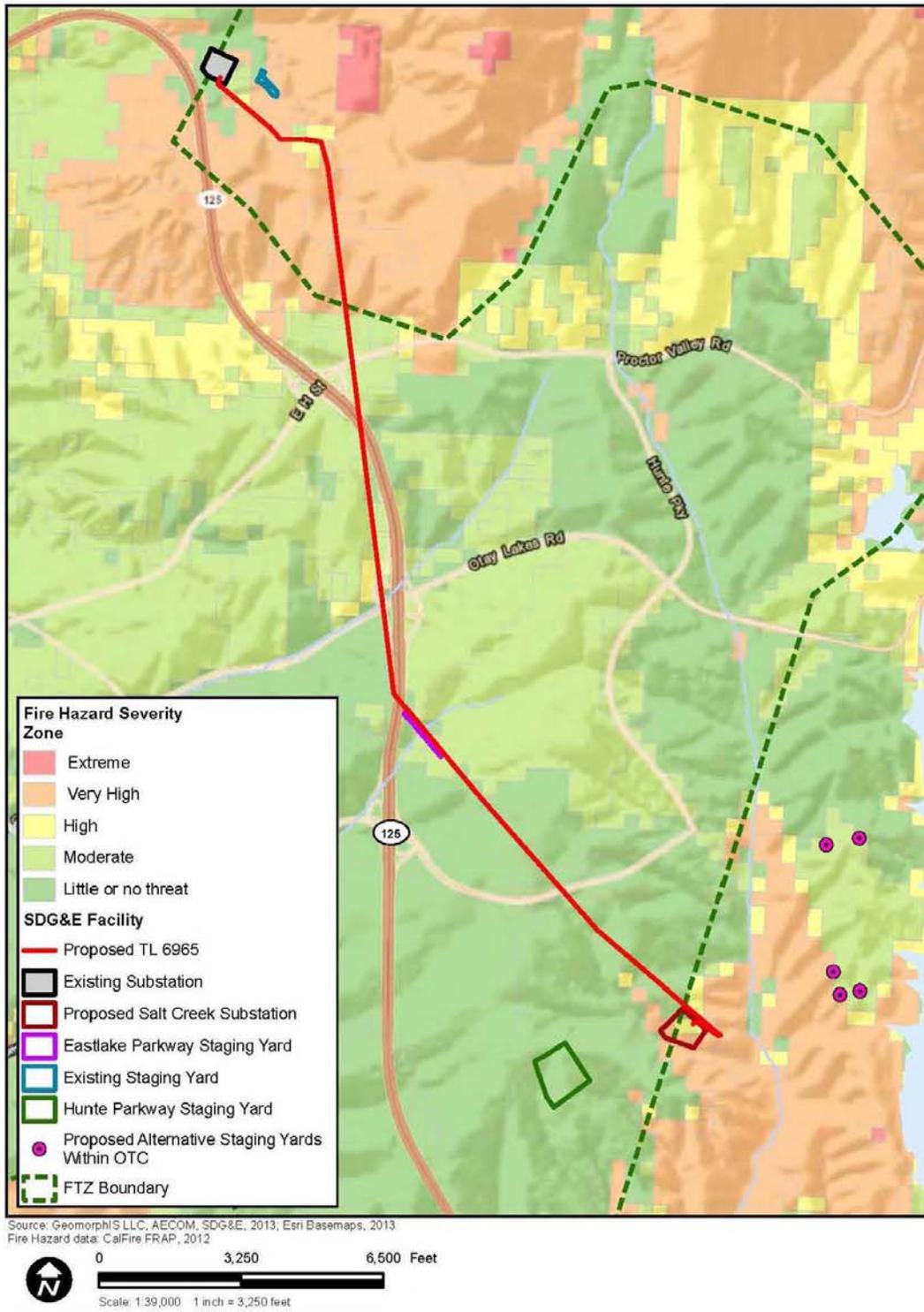
July 3, 2013
Date

Approved by:

Project Manager

Date

Figure 4.8-1: Fire Hazard Map



Note: SDG&E is providing this map with the understanding that the map is not survey grade.

