

01-13-11  
SDG&E SUNRISE POWERLINK  
TRANSMISSION LINE  
CONSTRUCTION FIRE PLAN

CLEVELAND NATIONAL FOREST



Fire Plan and Project Activity Levels for  
SDG&E Sunrise Powerlink Line Construction

Authorization ID DRD418696 - Exhibit 09

## **Purpose of the Plan**

This Fire Plan is designed to assist in safe practices to prevent fires on the Cleveland National Forest when engaged in construction activities.

The plan includes information on Project Activity Level (PAL), and a general fire plan for construction activities. The PAL includes a chart which has the fire danger level A through EV listed on the left side of the chart and the various types of construction activity requirements in the right column/s. The chart is designed to assist agencies/permittees/permittee's agents in determining what types of construction activities can be done on a given day based on the fire danger level.

## **What is PAL?**

The Project Activity (PAL) is a scientifically based system to regulate all industrial and contractual activities on National Forest lands in California. The PAL is designed to reduce the risk of large damaging wildfires and the legal vulnerability of the agency, contractors, or permittees. The system is fire danger and climatology based, using Energy Release Components (ERC) and Ignition Components (IC) to determine ratings. It provides a single decision support matrix for regulating industrial and service activities on the Cleveland National Forest.

## **Instructions for obtaining the PAL information:**

The PAL level is available from the Monte Vista Interagency Communications Center at **(619) 557-5262**.

Although the SDG&E Sunrise Transmission Line Construction Project crosses the areas 630, 675 and area 685 PAL Levels, it has been determined that the PAL Area for the entire project to be utilized will be Area 685. Reference is then made to the PAL chart to ascertain what types of construction activities are allowed under the given fire danger level A through EV. Level A represents the lowest fire danger while Level E represents the highest fire danger. Under Level EV, certain types of work may proceed with a variance issued by the Forest Service where SDG&E and their Contractors agree to specified fire prevention measures to mitigate the start of a wildfire.

## **Spark Arresters:**

USDA Forest Service approved spark arresters are required on all internal combustion engines. Heavy equipment that is diesel and turbo charged are exempt from this requirement. All vehicles such as dump trucks that are licensed and otherwise registered for highway travel are also exempt from the spark arrester requirement. (See Fire Plan Section 3, Tools and Equipment and Attachment 2, Exhaust Systems and Spark Arresters, for additional information on Spark Arresters).

**SDG&E SUNRISE FIRE PLAN FOR SPECIAL USE CONSTRUCTION PROJECTS**

**11-25-10**

**(Ref: FSH 6309.32 and 6309.11)**

**PROJECT: SDG&E SUNRISE POWERLINK CONSTRUCTION**

**1. SCOPE:**

The provisions set forth below outline the responsibility for fire prevention and suppression activities and establish a suppression plan for fires within the permit area. The provisions set forth below also specify conditions under which permit activities will be curtailed or shut down.

**2. RESPONSIBILITIES:**

**A. Permittee/Permittee's Agents**

- (1) Shall abide by the requirements of this Fire Plan for the entire duration of the project. Ensure that a copy of this Fire Plan and any special permits are to be known and in possession of project foreman/supervisor on work site daily.
- (2) Shall take all steps necessary to prevent his/her employees, subcontractors and their employees from setting fires not required in completion of the project, shall be responsible for preventing the escape of fires set directly or indirectly as a result of project operations, and shall extinguish all such fires which may escape.
- (3) Shall take all steps necessary to ensure that project employees, subcontractors and their employees are knowledgeable and comply with the requirements of the Fire Plan and the Fire Prevention Safety Measures adopted by the project.
- (4) Shall permit and assist in periodic testing and inspection of required fire equipment. Contractor shall certify compliance with specific fire precautionary measures in the fire plan, before beginning operations during Fire Precautionary Period and shall update such certification when operations change.
- (5) Shall designate in the fire plan and furnish on Project Area during operating hours a qualified fire supervisor authorized to act on behalf of Permittee/Permittee's Agents in fire prevention and suppression matters.
- (6) Shall complete the Permittee/Permittee's Agents Plan Regarding Personnel, Equipment, and Organization and shall furnish the Forest Service Permit Administrator (PA) with a copy prior to commencing work at the site. Shall advise the Forest Service representative of any changes in personnel as the changes occur. Shall revise Sections 7.B to reflect current activities upon request of the Forest Service representative.

**B. Forest Service**

The Forest Service may conduct inspections for compliance with the fire plan. The number, timing, and scope of such inspections will be at the discretion of agency employees responsible for permit administration. Such inspections do not relieve the Permittee of responsibility for correcting violations of the fire plan or for fire safety in general, as outlined in paragraph 2.A above.

The Fire Plan shall be reviewed and revised at intervals of not more than (3) years.

**3. TOOLS AND EQUIPMENT:**

- A. The Permittee/Permittee's Agents shall comply with the following requirements during the fire precautionary period as defined by unit administering contracts unless waived in writing:

The Fire Precautionary Period is **YEAR-ROUND**.

Shall equip all diesel and/or gasoline-operated engines, both stationary and mobile, and all flues used in any contract and camp operations with spark arresters that meet Forest Service standards set forth in the National Wildfire Coordinating Group publication for General Purpose and Locomotive Arresters or Multiposition Small Engine Arresters. A Spark Arrestor Guide for approved arrestors is available on line at <http://www.fs.fed.us/t-d/programs/fire/spark/sag-index.html>. Spark arresters are not required on

equipment powered by exhaust-driven turbo-charged engines or motor vehicles equipped with a maintained muffler as defined in California Public Resources Code (CPRC), Section 4442 and 4443.

Shall furnish and have available for emergency use on each vehicle or piece of equipment used in conjunction with performance of the work as listed below, hand tools and/or equipment as follows (CPRC 4427, 4428 and 4431):

- (A) One shovel, one axe (or pulaski) and a fully charged fire extinguisher U.L. rated at 2-A:10-B:C, or larger, on each truck, personnel vehicle, tractor, grader and other heavy equipment.
- (B) One shovel and one backpack 5 gallon water-filled tank with pump with each welder.
- (C) One shovel and one pressurized chemical fire extinguisher for each gasoline-powered tool, including but not restricted to chain saws, chippers, soil augers, generators, rock drills, etc. Fire extinguishers shall be of the type and size set forth in the California Public Resources Code Section 4431 and must be with equipment at all times. Shovel must be kept within 25 feet from each chain saw when in use.
- (D) The Permittee/Permittee's Agents **IS** required to furnish a sealed box of fire fighting tools, to be located in the operating area, at a point accessible in the event of fire. Tool boxes shall remain unlocked, but be sealed with a Forest Service seal to be broken for emergency use only. Unless specified for a specific activity, this box shall contain:

**FOR ALL CONSTRUCTION ACTIVITIES/SITES OF 4-10 PERSONNEL:**

- o \_\_\_1\_\_\_ 5-gallon, backpack pump-type fire extinguisher filled with water;
- o \_\_\_2\_\_\_ axes;
- o \_\_\_2\_\_\_ McCleod fire tools;
- o \_\_\_1\_\_\_ serviceable chain saw of three and one-half or more horsepower with a cutting bar 20 inches in length or longer;
- o \_\_\_3+\_\_\_ shovels so that each employee at the operation can be equipped to fight fire.

**FOR ALL CONSTRUCTION ACTIVITIES/SITES OF 11-20 PERSONNEL:**

- o \_\_\_2\_\_\_ 5-gallon, backpack pump-type fire extinguisher filled with water;
- o \_\_\_5\_\_\_ axes;
- o \_\_\_5\_\_\_ McCleod fire tools;
- o \_\_\_1\_\_\_ serviceable chain saw of three and one-half or more horsepower with a cutting bar 20 inches in length or longer;
- o \_\_\_10+\_\_\_ shovels so that each employee at the operation can be equipped to fight fire.

**FOR ALL CONSTRUCTION ACTIVITIES/SITES OF 21 PERSONNEL AND GREATER:**

- o \_\_\_3\_\_\_ 5-gallon, backpack pump-type fire extinguisher filled with water;
- o \_\_\_5\_\_\_ axes;
- o \_\_\_5\_\_\_ McCleod fire tools;
- o \_\_\_1\_\_\_ serviceable chain saw of three and one-half or more horsepower with a cutting bar 20 inches in length or longer;
- o \_\_\_10+\_\_\_ shovels so that each employee at the operation can be equipped to fight fire.

All tools and equipment required above shall be in good workable condition and shall meet the following Forest Service requirements for fire tools:

- (a) Shovels shall be size "O" or larger and be not less than 46 inches in overall length.
- (b) Axes (or pulaskis) shall have 2-1/2 pound or larger heads and be not less than 28 inches in overall length.

(E) Unless directed for certain operations under Section 4 (Additional Fire Plan Requirements), the Permittee/Permittee's Agents **IS** required to furnish a Water Tank Truck (Water Truck) Trailer or Portable Tank on or immediately adjacent to the project area and meet the following minimum specifications. Water Truck and operator must be ready to put out fire at all times. Water Truck, Trailer or Portable Tank shall contain at least 300 gallons of water; a combination straight stream-fog nozzle with 300 feet of 1 inch fire hose, with no segment longer than 50 feet; 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 required, the Water Truck, Trailer or Portable Tank **MAY** be used for other work on the project.
- When Water Truck, Trailer or Portable Tank is used for other operations, water level must always have 300 gallons minimum.
- If project area is beyond 200' of Water Truck, Trailer or Portable Tank accessibility, a charged hose capable of reaching 100' beyond the project area is required.

(F) The Permittee/Permittee's Agents **SHALL** be required to furnish an additional filled five gallon backpack pump and shovel at each work site at activity level C, or above.

(G) The Permittee/Permittee's Agents **SHALL**, be required to furnish a Fire Patrol. When required, the sole responsibility of the patrol person shall be to patrol the operation for prevention and detection of fires, to make sure all State, County and Federal Fire regulations and Project Fire Plan conditions are met, and to take suppression action where necessary. By agreement only, one Fire Patrol person may provide patrol on this and adjacent projects.

- Fire Patrol is to have two (2) Filled 5 gallon backpack pump and fire fighting tools.
- The Fire Patrol **MAY NOT** perform other duties on the contract unless agreed upon for a specific activity.
- If a Designated Fire Patrol person is used, they must be knowledgeable of and make sure all Regulations and Project Fire Plan conditions are met for that activity, and able to take suppression action where necessary.
- Full Time Patrols **MUST** be utilized as the Fire Patrol person for the following activities: Wire Tension Sites, Tower Foundation Drilling, Road Construction/Pioneering, and Conductor splicing utilizing implosive sleeves.
- The Fire Patrol shall remain on duty at least one hour after the close of work or sunset (whichever comes first) at **Activity Level B**; a fire patrol person shall remain at the site for two hours after the close of work or sunset local time (whichever comes first) at **Activity Level C and above**.

(H) The Contractor **WILL be** required to furnish communications equipment as specified in Section 5j.

#### 4. **ADDITIONAL FIRE PLAN REQUIREMENTS:**

- If a Red Flag Warning is issued (despite the PAL Level), **ALL** work will cease and be suspended until the Red Flag warning is canceled and the Forest Service approves a resumption of the project.
- Project activities may be shut down by the Forest Service at any time due to changes in weather conditions, active fire in the area, if the local Ranger District gets into a Drawdown condition, and/or any violations of any project requirements. Permission to resume work can only be issued by the Forest Service and shall be in writing.
- A copy of this Fire Plan and any special permits is to be known and in possession of both the Project Foreman/Supervisor and Fire Patrol on work site daily
- **FIRE CLEARANCE** is required around all project sites and activities including:
  - Tower Assembly, Staging, Refueling, Implosive Sleeve Splicing, Wire Pulling, Wire Tension, and Helicopter Landing Zones shall be cleared to a minimum 3" depth of all fuel with a 5' fuel break to mineral soil around the edge of the areas.

- Tower Construction Sites shall have a minimum 10' clearance beyond all working operations to 1" or less stubs and all light fuels removed including grass, needles, duff, leaves, etc.
- A 5' path from the Helicopter Landing Zone to the Tower Construction Site cleared to 1" stubs or less and all light fuels removed including grass, needles, duff, leaves, etc.
- Small mobile or stationary internal combustion engine sites shall be cleared of flammable vegetation for a slope distance of at least 10' from such engine.
- **SLOPE MOWERS**, flail machinery, brush hogs, masticators or other rotary head equipment operating at > 1100 rpm's, SHALL operate ONLY under the appropriate PAL Levels and require:
  - A Water Truck or Trailer (as described in Section 3E of the Fire Plan). Water Truck or Trailer is to follow immediately behind equipment and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve water.
  - A Fire Patrol person is to follow 10-15 minutes behind the brushing operations with a required minimum two (2) filled 5-gallon backpack pump and shovel to check for any late fire ignitions.
  - Both the Water Truck or Trailer and Fire Patrol person are to patrol the area for Two hours after close of work or until SUNSET local time (whichever comes first).
  - **No operations after 1:00 p.m. on a PAL level "D" and above.**
- **ROAD BLADING** operations after 1:00 PM on a "D" PAL level shall require:
  - A Water Truck or Trailer (as described in Section 3E of the Fire Plan) will follow immediately behind the blading operations and be prepared to extinguish any fires.
  - A Fire Patrol person is to follow 10-15 minutes behind the blading operations with a minimum two (2) filled 5- gallon backpack pump and shovel to check for any late fire ignitions.
- **ROAD CONSTRUCTION** shall operate ONLY under the appropriate PAL Levels and shall require:
  - A Water Truck or Trailer (as described in Section 3E of the Fire Plan). Water Truck is to follow immediately behind equipment and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve water.
  - A Fire Patrol person is to follow 10-15 minutes behind the operations with a minimum required two (2) filled 5-gallon backpack pump and shovel to check for any late fire ignitions.
  - Both the Water Truck or Trailer and Fire Patrol person are to patrol the area for Two hours after close of work or until SUNSET local time (whichever comes first).
  - **No pioneering operations after 1:00 p.m. on a PAL level "D" and above.**
- **CHAINSAWS** shall operate only under the appropriate PAL Levels, require a shovel, fire extinguisher and five-gallon backpack pump to be within 25 feet of the chainsaw, and shall require:
  - **On approved staging areas and roadbeds after 1:00 p.m. on a PAL level "D" or above:**
    - A Fire Patrol Person with a minimum two (2) 5 gallon back pack pumps and shovel) to patrol the area treated that day for Two hours after close of work or until Sunset local time (whichever comes first).
  - **Outside of approved staging areas and roadbeds after 1:00 p.m. on a PAL level "D" or above:**
    - A Fire Patrol Person with a minimum two (2) 5 gallon back pack pumps and shovel) to patrol areas treated that day for Two hours or until Sunset local time (whichever occurs first).
    - A Water Truck or Trailer (Meeting the requirements of Section 3E) immediately within 100' of operations and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve water.

- **WEEDEATERS (Steel Blade)** shall operate only under the appropriate PAL Levels, require a shovel, fire extinguisher and five-gallon backpack pump to be within 25 feet of the weedeater, and shall require:
  - **On approved staging areas and roadbeds after 1:00 p.m. on a PAL level “D” or above:**
    - A Fire Patrol Person with a minimum two (2) filled 5 gallon back pack pumps and shovel) to patrol the areas treated that day for Two hour or until Sunset local time (whichever comes first).
    - A Water Truck or Trailer (Meeting the requirements of Section 3E) immediately within 100’ of operations and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve water.
  - **Outside of approved staging areas and roadbeds:**
    - A Fire Patrol Person with a minimum two (2) filled 5 gallon back pack pumps and shovel) to patrol all areas treated that day Two hours or until Sunset local time (Whichever occurs first).
    - A Water Truck or Trailer (Meeting the requirements of Section 3E) immediately within 100’ of operations and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve water.
    - **No weedeating outside of approved staging areas and roadbeds after 1:00 PM on a PAL Level “D” and above.**
  
- **WEEDEATERS (STING LINE)** shall operate only under the appropriate PAL Levels, require a shovel, fire extinguisher and five-gallon backpack pump to be within 25 feet of the weedeater, and shall require:
  - **On approved staging areas and roadbeds after 1:00 p.m. on a PAL level “D” or above:**
    - A Fire Patrol Person with a minimum two (2) filled 5 gallon back pack pumps and shovel) to patrol the area treated that day for Two hours or until Sunset local time (whichever comes first).
  - **Outside of approved staging areas and roadbeds after 1:00 p.m. on a PAL level “D” or above:**
    - A Fire Patrol Person with a minimum two (2) filled 5 gallon back pack pumps and shovel) to patrol areas treated that day for Two hours after close of work or until Sunset local time (whichever occurs first).  
A Water Truck or Trailer (Meeting the requirements of Section 3E) immediately within 100’ of operations and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve water
  
- **CHIPPING** shall operate only under the appropriate PAL levels, require a shovel, fire extinguisher, and five-gallon backpack pump to be within 25 feet of the chipper, and shall require:
  - **On approved staging areas and roadbeds after 1:00 p.m. on a PAL level “D” or above:**
    - A Fire Patrol Person with a minimum two (2) filled 5 gallon back pack pumps and shovel) to patrol areas treated that day for Two hours or until Sunset local time (whichever occurs first).
    - A Water Truck or Trailer (Meeting the requirements of Section 3E) immediately within 100’ of operations and ready to extinguish any fire starts. Water Truck or Trailer must never fall below 300 gallons of reserve.
    -
  - **Outside of approved staging areas and roadbeds:**
    - A Water Truck or Trailer (Meeting the requirements of Section 3E) must be immediately behind the equipment and ready to extinguish any fires. Water Truck or Trailer must never fall below 300 gallons of reserve water
    - **No chipping outside of approved staging areas and roadbeds after 1:00 p.m. on a PAL Level “D” and above.**

- **IMPLOSIVE SLEEVE SPLICING:** shall operate only under the appropriate PAL levels and shall require:
  - A special written permit from the District Ranger or authorized representative
  - A clearance of a 40' radius around the blasting area of all vegetation to less than 3" depth and all loose vegetation removed.
  - A wet down of a 200' radius around the blasting site just prior to and just after detonation
  - A rubber or fire proof mat at least 15' x 15' on the ground under the detonation site.
  - A minimum 300 gallon Water Truck or Trailer (Meeting the Requirements of Section 3E) and Fire Patrol on site ready to extinguish any fires. Both Water Truck and Patrol to stay in area 2 hours after detonation occurs.
  
- **HELICOPTER AND DOZER REFUELING** requires:
  - Refueling only at approved sites.
  - All vegetation cleared to 3" or less, including loose materials, to standard for appropriate helicopter type, and a 15'x15' area for dozers and heavy equipment.
  - Each fueling site to have a minimum of a crash kit, spill kit, no smoking signs, and a 20 pound 40: B:C rated fire extinguisher on site.
  - A Water Tank Truck or Trailer (Meeting the requirements in Section 3E) during fueling operations.
  
- **Any WELDING, CUTTING OR GRINDING** requires:
  - A special written permit from the District Ranger or authorized representative
  - A minimum 10' radius cleared area to mineral soil, the use of a welding tent during operations, and the surrounding area within 25' in all directions be wet down prior to and after the welding operation with a .3% Class A Foam solution.
  - A charged hose from a Water Truck, Trailer or Portable Tank (as described in Section 3e of the Fire Plan) and capable operator to be within 50' of each project area. If project is more than 200' from Water Truck, Trailer or Portable Tank, the hose must be capable of reaching 100' beyond the project site.
  - See Attachment 1, Metal Cutting, Welding, or grinding for more specifics.
  
- **BACKHOES, CRAWLER TRACTORS, EXCAVATORS, GRADERS, OR OTHER HEAVY CONSTRUCTION EQUIPMENT** must operate under the appropriate PAL Level and must have a 300 gallon Water Truck or Trailer in the immediate vicinity of the project and an operator capable of taking suppression action if necessary.
- **ROADS** shall remain open and passable for emergency.

## 5. GENERAL

- A. **State Law.** The Permittee/Permittee's Agents shall comply with all applicable laws of the State of California. In particular, see California Public Resource Codes.
- B. **Permits Required.** The Permittee/Permittee's Agents must secure a special *written permit* from the District Ranger or designated representative before engaging in any of the activities listed below. The terms and conditions of any of the permits required for this contract are as shown on copies attached to the Fire Plan.
- (1) Blasting and Storage of Explosives and Detonators. (Explosives Permit required by California Health & Safety Code, Section 12101.)
  - (2) Air Pollution. (Issued by local State or County Air Pollution Control Districts, as applicable.)
  - (3) Welding and Cutting.
  - (4) Implosive Sleeve Splicing
- C. **Regulations for Burning. NO BURNING ALLOWED.**
- D. **Smoking and Fire Rules.** Smoking shall not be permitted during fire season, except in a barren area or in an area cleared to mineral soil at least three feet in diameter (CPRC 4423.4). In areas closed to smoking, the CO or Forest Service representative may approve special areas to be used for smoking. The Contractor/ Permittee/Permittee's agent/s shall sign designated smoking areas. Permittee/Permittee's Agents shall post signs regarding smoking and fire rules in conspicuous places for all employees to see. Contractor's/Permittee/Permittee's Agent/s supervisory personnel shall require compliance with these rules. Under no circumstances shall smoking be permitted while employees are operating light or heavy equipment, or walking or working in grass and woodlands.
- E. **Storage and Parking Areas.** Equipment service areas, parking areas, and gas and oil storage areas shall be cleared of all flammable material for a radius of at least 10 feet unless otherwise specified by local administrative unit. Small mobile or stationary internal combustion engine sites shall be cleared of flammable material for a slope distance of at least 10 feet from such engine. The COR or Forest Service representative shall approve such sites in writing.
- F. **Welding. BY PERMIT ONLY.** Permittee/Permittee's Agents shall confine welding activity to cleared areas having a minimum radius of 10 feet measured from place of welding and utilize a welding tent or metal shield where possible to deflect sparks. (See Welding, Cutting & Grinding Safety –Attachment 1)
- G. **Blasting / Implosive Sleeve Splicing. BY PERMIT ONLY**
- H. **Oil Filter and Glass Jugs.** Permittee/Permittee's Agents shall remove from National Forest land all oily rags and used oil filters. Permittee/Permittee's agents shall prohibit use of glass bottles and jugs on project operations.
- I. **Reporting Fires** Upon discovery, Immediately, the contractor/permittee shall notify Forest Service of any fires along roads or within project area. Call Forest Service Dispatch Center at 619-557-5262. SDG&E requires employees to call Sunrise Base. Sunrise Base (SRB) will call the Forest Service Dispatch Center immediately.
- J. **Communications.** Permittee/Permittee's Agents shall furnish an agreed upon communication system connecting each operation with the designated Forest Service Dispatch Center. The communications system shall be capable of contacting the designated Forest Service Dispatch Center within five (5) minutes of discovery of a fire in the Permittee's operating area. The communications system shall be operable during the Permittee's operation in the fire precautionary period.
- K. **Fire Patrol Person.** When required, the sole responsibility of the Fire Patrol person shall be to patrol the operation for prevention and detection of fires, to make sure all State, County and Federal regulations and Project Fire Plan conditions are met, and to take suppression action where necessary. By agreement, one Fire Patrol person may provide patrol on this and adjacent projects.

6. EMERGENCY MEASURES

**PROJECT ACTIVITY LEVELS**

The table set forth below establishes work restrictions and fire precautions that the permittee / permittee's agent personnel must observe at each activity level.

***\*RESTRICTIONS ARE CUMULATIVE AT EACH LEVEL\****

Permittee/Permittee's Agents shall conform to the limitations or requirements of Project Activity Level (PAL) obtained from Forest Service before starting work each day. If practicable, Forest Service will determine the following day's activity level by 4:00 PM each afternoon.

**The Permittee/Permittee's Agent can obtain the PAL for the following day by calling, after 4:00 PM, the following phone number (619)-557-5262 (24-hour number) and asking the Dispatcher for the PAL for the AREA 685.**

**The Activity level may be changed at any time if, in the judgment of the Forest Service, fire danger is higher or lower than predicted and such change is consistent with forest management objectives. The decision to change the activity level, and when, and how to take weather observations for that purpose, are within the discretion of Forest Service.**

***IT IS THE RESPONSIBILITY OF THE PERMITTEE OR PERMITTEE'S AGENTS TO OBTAIN THE FOLLOWING DAY'S PREDICTED PROJECT ACTIVITY LEVEL (PAL) FOR THE "AREA 685".***

PROJECT ACTIVITY LEVELS

Contractor & Forest Service may agree to a variance for operations at levels, B, C, D & Ev.

<b>Level</b>	<b>Project Activity Requirements</b>	<b>Additional Project Activity Requirements Using Hotsaw Technology (generally rotary heads operating at &gt;1100 rpm, i.e. Flail machinery, mowers, masticators)</b>
<b>A</b>	Minimum required by Section 3 1. Implosive Sleeve Splicing, Blasting, Welding, grinding or cutting of metal requires a special permit	Same as Project Activity Requirements
<b>B</b>	1. <b>Furnish fire patrolperson.</b> A fire patrolperson is required for mechanical operations from cessation of operations until <u>1 hour</u> after close of work or sunset local time, whichever occurs first. 2. Water Truck, Trailer or Portable Tank (Section 3) shall be on or adjacent to staging areas. 3. Implosive Sleeve Splicing, Blasting, Welding, grinding or cutting of metal requires a special permit	Same as Project Activity Requirements.
<b>C</b>	1. <i>Fire patrolperson is required to patrol the area for 2 hrs after close of work or until <b>sunset</b> local time (whichever occurs first).</i>  2. The following operations are prohibited from 1:00 PM until 8:00 PM local time: a. Dead tree felling, limbing, or bucking except recently dead trees. b. Welding, grinding or cutting of metal only by special permit	<b>Masticator, slope mower, and flail machinery operations are prohibited between 1:00 PM and sunset local time. Operations may continue if they meet the following requirements for each piece of equipment:</b> 1. <i>A Water Truck or Trailer is to follow immediately behind the equipment and be ready to extinguish any fires.</i> 2. <i>A Fire Patrol person is required for each piece of equipment and to follow 10-15 minutes behind the operation with a required two (2) minimum filled 5-gallon backpack pumps and shovel to check for any late ignitions.</i> 3. <i>Both the Water Truck or Trailer and Fire Patrol person are to patrol the area for 2 hrs. after close of work or until <b>Sunset</b> local time (whichever occurs first).</i>
<b>D</b>	<i>Fire patrolperson is required until 2 hrs. after the close of work or <b>sunset</b> local time (whichever occurs first).</i>  <b>The following activities may operate all day.</b> 1. Flag and stake sensitive areas. 2. Deliver Fire Protective Equipment to all active work sites. 3. BMP's installed by hand tools. 4. Mobilize construction equipment at fly yards. 5. Haul and unload tower steel components and foundation equipment at Tower Assembly Areas. 6. Deliver insulators, stringing sheaves and hardware to Assembly Fly Yards. 7. Re-vegetate Tower Assembly Areas and Fly Yards. 8. Re-vegetate spur roads and pulling sites. 9. Haul wire off approved staging areas and roadbeds. 10. Hand slash disposal. 11. Load vegetation decked at staging areas. 12. Removal of vegetation including brush, weeds and other organic material by hand only 13. Hydro-seeding. 14. Roads: dust abatement.	<b>Masticator, slope mower, and flail machinery operations may operate <u>until 1:00 PM ONLY</u> with the following requirements for each piece of machinery:</b> 1. <i>A Water Truck or Trailer is to follow immediately behind the equipment and be ready to extinguish any fires.</i> 2. <i>A Fire Patrol person is required for each piece of equipment and to follow 10-15 minutes behind the operation with a required two (2) minimum filled 5-gallon backpack pumps and shovel to check for any late ignitions.</i> 3. <i>Both the Water Truck or Trailer and Fire Patrol person are to patrol the area for 2 hrs after the close of work or until <b>Sunset</b> local time (whichever occurs first).</i>

**The following activities are prohibited from 1:00 PM until 8:00 PM local time. These operations may continue after 1:00 PM local time if they meet the following requirements including:**

- **A Fire Patrol person (with minimum two (2) filled 5 gallon back pack pumps and shovel) is required to patrol all areas treated that day for 2 hours after the close of work or until SUNSET local time (whichever occurs first).**
1. Chainsaw operations on approved staging areas and roadbeds.
  2. Mechanized loading and hauling, except trucks already at cleared staging areas.
  3. Sloughage removal on approved staging areas and roadbeds.
  4. Guard Pole Installation with 10' clearance around each pole to mineral soil.
  5. Grout application, cap replacement, removal of cuttings and forms, and pull test around tower footings.
  6. Fly in and erect tower legs and tower body extensions.
  7. Fly in main tower body section and bridges for attachment to legs and extensions.
  8. Mobilize stringing equipment and materials to identified pulling locations and set up.
  9. Wire pulling with proper clearance around vehicles.
  10. Fly in insulation and stringing sheaves and install on completed towers.
  11. Attach conductor to insulators on tangent towers.
  12. Install dead end insulators, assemblies and conductor wire jumpers on dead ends.
  13. Install conductor spacers for 2-3 Bundle conductor.
  14. Install aviator marker balls and swan flight diverters on ground wires.
  15. Any other spark-emitting operation by special permit.

**The following activities are prohibited from 1:00 PM until 8:00 PM local time. These operations may continue after 1:00 PM local time if they meet the following requirements including:**

- **A Water Truck /Trailer/Portable Tank (Meeting Section 3E requirements) within 100' of operation**
  - **A Fire Patrol Person (with minimum two 5 gallon back pack pumps and shovel) is required to walk all areas treated that day once per hour until SUNSET local time**
1. Operating chainsaws outside of approved staging areas and roadbeds.
  2. Operating **steel blade** weed eaters on approved staging areas and roadbeds only.
  3. Operating **sting line** weed eaters outside approved staging areas and roadbeds.
  4. Chipping on approved staging areas and roadbeds only.
  5. Drilling and pile installation around tower sites.
  6. Tower Assembly and Fly-rigging Installation at Assembly Fly Yards.
  7. Wire stringing and tension with proper clearance around vehicles.
  8. Re-contour Tower Assembly and Fly Yard Areas

	<p>utilizing heavy equipment.</p> <ol style="list-style-type: none"> <li>9. Dirt moving and slide removal by machinery.</li> <li>10. Road Grading/Blading and by machinery.</li> <li>11. Road maintenance and repair by machinery.</li> <li>12. BMP installation utilizing machinery.</li> </ol> <p><b>The following activities are prohibited all day or as conditioned:</b></p> <ol style="list-style-type: none"> <li>1. Chipping outside of approved staging areas and roadbeds may operate until 1:00 PM <u>only</u> with: <ul style="list-style-type: none"> <li>• A Water Truck or Trailer (meeting the requirements in Section 3E) and appropriate fire tools and equipment within 25' of operations.</li> </ul> </li> <li>2. No chipping outside of approved staging areas and roadbeds after 1:00 PM.</li> <li>3. Weedeaters may operate outside of approved staging areas and roadbeds until 1:00 PM <u>only</u> with a Water Truck or Trailer and Fire Patrol in immediate area.</li> <li>4. No operating steel blade weedeaters outside of approved staging areas and roadbeds after 1:00 PM.</li> <li>5. IMPLOSIVE Sleeve Splicing may occur prior to 1:00 PM ONLY with: <ul style="list-style-type: none"> <li>• Minimum 40' brush clearance (no greater than 3" high) around detonation site and all loose materials removed</li> <li>• 200' wet down of area prior to and after detonation</li> <li>• 15' x 15' rubber or fire proof mat below the detonation site.</li> <li>• Water Truck (or Trailer) and Fire Patrol in area until 2 hours after detonation</li> </ul> </li> <li>6. Re-contour of spur roads, pulling sites, and tower sites using heavy equipment may operate until 1:00 PM <u>only</u> with a Water Truck or Trailer and Fire Patrol in immediate area.</li> <li>7. Road clearing and pioneering in uncleared areas after 1:00 PM.</li> <li>8. Dead tree felling, limbing, or bucking except recently dead trees.</li> <li>9. Implosive Sleeve Splicing, Welding, metal grinding and cutting requires a special permit.</li> </ol>	
<b>Ev</b>	<ol style="list-style-type: none"> <li>1. <i>Fire patrol person is required for 2 Hrs after the close of work or until <u>sunset</u> local time (whichever occurs first).</i></li> </ol> <p><b>All following activities may operate:</b></p> <ol style="list-style-type: none"> <li>1. Perform Biological Pre-construction and clearance surveys</li> <li>2. Flag and stake sensitive areas.</li> <li>3. Hauling and loading of vegetation, construction materials, and trash decked at approved staging areas <u>only</u>.</li> <li>4. Equipment at approved staging areas may be serviced.</li> <li>5. Roads: Dust abatement.</li> <li>6. Chainsaw operation associated with loading.</li> </ol> <p><b>All other operations may continue until 1:00 PM local time when Contractor and Forest Service agree to variance.</b></p>	<b>All rotary head operations are prohibited, except variances are permitted for operations until 1:00 PM local time when Contractor and Forest Service agree to additional precautions.</b>
<b>E</b>	<ol style="list-style-type: none"> <li>1. <i>Fire patrol person is required for 2 hrs. after the close of work or until <u>sunset</u> local time (whichever occurs first).</i></li> </ol> <p><b>The following activities may operate:</b></p> <ol style="list-style-type: none"> <li>1. Perform Biological Pre-construction and</li> </ol>	<b>All rotary head operations are prohibited</b>

	<p>clearance surveys</p> <ol style="list-style-type: none"><li>2. Flag and stake sensitive areas.</li><li>3. Hauling and loading of vegetation, construction materials, and trash decked at approved staging areas <u>only</u>.</li><li>4. Equipment at approved staging areas may be serviced.</li><li>5. Roads: Dust abatement.</li></ol>	
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## **RED FLAG WARNING**

- 1. If a Red Flag Warning is issued (despite the PAL level) All work will cease and be suspended until the warning is cancelled and the Forest Service approves a resumption of the project.**

### What is a Red Flag Warning?

Red Flag Warning is a term used by fire weather forecasters and fire agencies to call attention to limited conditions of particular importance that may result in extreme burning conditions. The Warning is issued when there is an ongoing event or the fire weather forecaster has a high degree of confidence that Red Flag criteria will occur within 24 hours of issuance. Red Flag criteria occurs whenever a geographical area has been in a dry spell for a week or two or for a shorter period, if before spring green up or after fall color, and the National Fire Danger Rating System (NFDRS) is high to extreme and the following forecast weather parameters are forecasted to be met:

- Relative humidity less than or equal to 15 percent with sustained winds=25 mph and/or frequent gusts=35 mph for =6 hrs.
- Dry Lightning (more than isolated coverage)

Further information regarding Red Flag Warning Conditions can be found in the 2010 California Fire Weather Annual Operating Plan at the link below.

**[http://gacc.nifc.gov/oscc/predictive/weather/California\\_2010\\_AOP.pdf](http://gacc.nifc.gov/oscc/predictive/weather/California_2010_AOP.pdf)**

## 7. REPORTING ALL WILD FIRES

- A. Permittee/Permittee's Agent employees shall report all fires to any of the following Forest Service facilities and/or personnel listed below, but not necessarily in the order shown:

	Name	Office Address and/or telephone	Home address and/or telephone
<b>Dispatch Center-MVICC</b>	<b>Forest Service</b>	<b>619-557-5262</b>	
District FMO	Chris Anderson	619-445-6235	619-548-3708
Special Project Manager	Brian Paul	619-445-6235	
District Ranger	Owen Martin	619-445-6235	
District Ranger-Detailed	Sharon Wallace	619-445-6235	
FS Fire Patrol	TBA	619-445-6235	619-557-5262

***When reporting a fire, provide the following information;***

Your Name;

Call back telephone number;

Project name;

Location; Tower #

Descriptive location (Reference point);

Fire Information;

Size(Acres); Rate of spread; Wind conditions, what is burning/type of fire?

- 7B. **Permittee/Permittee's Agents Plan Regarding Personnel, Equipment, and Organization.** The Permittee/Permittee's Agents shall, prior to commencing work, furnish the following information relating to key personnel, tools and equipment available for the purpose of fighting wildfires within and adjacent to the Project Area:

- (1) **Key Personnel:** (In order of call preferences)

<u>Title</u>	<u>Name</u>	<u>Address and/or telephone</u>
<b>Fire Supervisor</b>		
<b>SDG&amp;E Project Fire Marshal</b>	Acree Shreve	858-401-3327
SDG&E Project Safety Manager	Tim Knowd	619-921-7384
PAR Fire Marshal	Larry Strasser	661-236-4649
Pacific Fire Battalion Chief	Randy Reyes	949-639-9115

- (2) **Personnel and Equipment**

<u>Fire Fighters/Positions:</u>	<u>Equipment:</u>	<u>Classification or Type, Make &amp; Model</u>
PAR, Kevin Toller	Engine 3030	Type 6, 200 gallon/foam
PAR, Dwayne Strasser	Engine 3016	Type 6, 200 gallon/foam
Pacific Fire- Fire Watch	Engine 322	Type 6, 400 gallon/foam
Pacific Fire- Fire Watch	Engine 297	Type 6, 400 gallon/foam
Pacific Fire- Fire Watch	Engine 322	Type 6, 400 gallon/foam

Truck #	Equipment type	Manufacture/model number	Spark arrestor make/model	Shovel/axe/fire ext.
FB-3030	Fire truck	Chevy 3500	Catalytic converter	all in place
FB-3030	Fire truck Pump	Honda GX390	S-365A	
FB-3030	Chainsaw	Stihl .325 spur	Stihl 11271451606	
FB-3016	Fire truck	Chevy 3500	Catalytic converter	all in place
FB-3016	Fire truck Pump	Honda GX390	S-365A	
FB-3016	Chainsaw	Stihl .325 spur	Stihl 11271451606	
FB-3021	Fire truck	Chevy 3500	Catalytic converter	all in place
FB-3021	Fire truck Pump	Honda GX390	S-365A	
FB-3021	Chainsaw	Stihl .325 spur	Stihl 11271451606	
FB-3023	Fire truck	Chevy 3500	Catalytic converter	all in place
FB-3023	Fire truck Pump	Honda GX390	S-365A	
FB-3023	Chainsaw	Stihl .325 spur	Stihl 11271451606	
FB-3069	Fire truck	Ford F-550	Turbo Charged	all in place
FB-3069	Fire truck Pump	tbd	tbd	
FB-3069	Chainsaw	Stihl .325 spur	Stihl 11271451606	
<b>Water Buffalo/Water Tender</b>				
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
TBD	Water Buffalos	Wylie 500g express	18355/ZEI/810	
WT 5003	2000 Gallon WT	Briggs & Stratton	794945	all in place
WT- 5002	2000 Gallon WT	Briggs & Stratton	794945	all in place
WT- 5004	2000 Gallon WT	Briggs & Stratton	399541	all in place
<b>FLY IN FIRE PUMPS</b>				
PUMP-1	Fly gear	Briggs & Stratton	794945	21 Person Fire Box
PUMP-2	Fly gear	Briggs & Stratton	794945	21 Person Fire Box
PUMP-3	Fly gear	Qp-205sh-3604 honda	18355/ZEI/810	21 Person Fire Box
PUMP-4	Fly gear	Qp-205sh-3604 honda	18335/ZEI/810	21 Person Fire Box
PUMP-5	Fly gear	Qp-205sh-3604 honda	18355/ZEI/810	21 Person Fire Box
PUMP-6	Fly gear	Qp-205sh-3604 honda	18335/ZEI/810	21 Person Fire Box

<b>FIRE BOXES</b>				
BOX-1	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-2	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-3	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-4	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-5	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-6	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-7	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-8	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-9	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box
BOX-10	Fly gear	Stihl .325 spur	Stihl 11271451606	21 Person Fire Box

**\*Approved Spark Arrestor Guide List is available on line at:**  
<http://fswweb.sdtc.wo.fs.fed.us/programs/fire/spark/sag-index.html>

**(3) Fire Suppression Plan:**

**Permittee (Print):** \_\_\_\_\_ **(Signature):** \_\_\_\_\_  
**Date:** \_\_\_\_\_

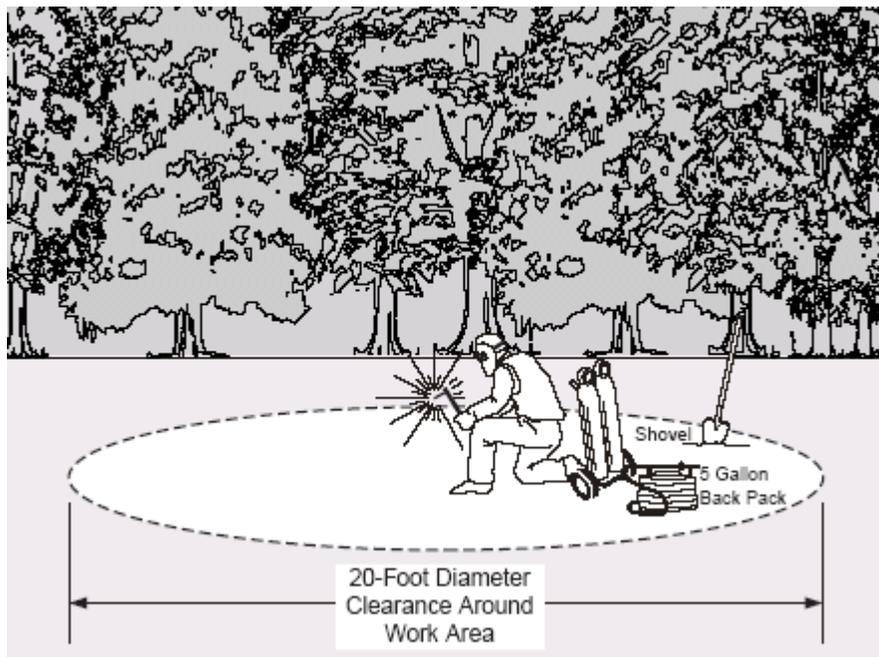
**Terms Approved By:**  
**District Ranger(Print):** Owen Martin \_\_\_\_\_ **(Signature):** \_\_\_\_\_  
**Date:** \_\_\_\_\_

## METAL CUTTING, WELDING and GRINDING

A California Inter-Agency Burning permit is required for all metal cutting, metal grinding, and welding operations. This permit may be obtained from the Forest Service. Contact District Fire Prevention personnel 619-445-1725 to obtain the permit. Permits expire at the end of the calendar year or upon terms of the permit.

Welding and metal grinding have caused numerous wildfires in California. The following graphic and guidelines are designed to help mitigate fire starts caused by Sparks, slag, or hot metal falling into dry vegetation fuel beds.

1. Clear and maintain to bare soil a minimum 10 ft. area form work site of dead grass, brush, and other combustibles.
2. Have a shovel at the work site.
3. Have a pressurized water fire extinguisher (preferred), at the work site or 5 gallon water back pack or dry chemical fire extinguisher ready for emergency use.
4. Have two (2) adults in attendance at all times, one working and one watching for hazards.
5. Where practicable, use a welding tent or shield to contain welding and grinding sparks.



**Proper clearances around welding operation.**

## ATTACHMENT 2

### **EXHAUST SYSTEMS AND SPARK ARRESTERS**

Vehicle exhaust systems start fires in two ways: (a) an emission of hot carbon particles, and (b) direct contact with flammable materials and vegetation. Contact with flammable materials may occur by a collection of flammables on manifolds and inside heat shields or by parking where flammable vegetation may come in close proximity or contact to exhaust systems and other components. Fire ignition by direct contact most often occurs with a vehicle muffler, catalytic converter, or exhaust pipe. Operating temperatures of any of these components are well above the ignition temperature of dry wildland fuels. Vehicles should always and only be parked on an area cleared of all flammable materials.

All internal combustion engines operating on forest or grass covered lands in California, are required to be equipped with an effective spark arrester. Muffler equipped trucks, buses, and passenger vehicles are exempt provided they are licensed and registered for highway travel and the exhaust system has not been modified. Heavy equipment such as road graders, rubber tired front end loaders, and caterpillar tractors that are diesel powered and are equipped with a turbo charger where 100% of the exhaust is recycled through the turbo charger are exempt from the spark arrester requirement. All portable gasoline generators, chainsaws, and weed eaters are required to have a spark arrester on the exhaust system.

Additional information on spark arresters and application for various equipment can be found on line at <http://fsweb.sdtcd.wa.fs.fed.us/programs/fire/spark/sag-index.html>.

**16. PLAN APPROVAL:** The signatory reviewing officials are acknowledging that SDG&E has a Construction Fire Prevention Plan that is appropriate and necessary to mitigate fire hazard and risk for the SRPL construction and maintenance activities. They do not accept any responsibility for SDG&E interpretation or implementation of this Plan during the construction and maintenance of the SRPL or for any resulting actions associated with these activities.

Reviewed by:

Hal J. Mortier

12/8/2009

Fire Coordinator

Howard Winkler

Date

Dec 4th, 2009

CAL FIRE

Howard Winkler

Date

Approved by:

\_\_\_\_\_  
SDG&E Project Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
SDG&E Project Fire Marshal

\_\_\_\_\_  
Date