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**Appendix J-1**  
Construction Fire Protection Plan



Title	CONSTRUCTION FIRE PREVENTION PLAN SCG HONOR RANCHO		
Part Number	E-170-00-HS- PL-001	Rev.	B
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# Construction Fire Prevention Plan

PHASE 1 – SCG HONOR RANCHO

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## Description

Mitigations outlined in the SSSP are applicable in all areas of the project.

This plan outlines awareness related to the prevention, mitigation and training to help educate and eliminate the potential of a fire incident onsite.

## Fire Protection

ARB will implement and execute this Fire Protection & Prevention Plan (FPPP) along with SCG Construction Fire Prevention Plan specific to Honor Rancho site.

ARB employees and sub-contractor will follow the FPPP along with specific SCG requirements to Honor Rancho site.

ARB, Inc. construction contractor shall supplement the (FPPP) with adequately sized and strategically located fire extinguishers. These fire extinguisher locations will vary by construction work areas and type of work activities (welding, cutting, cranes, forklifts, vehicles, construction offices, construction storage areas, etc.

Likewise, good housekeeping is essential for safe construction and for fire prevention. The construction contractor shall direct site construction workers, at a minimum, to daily clear the construction work areas to assure work areas are free from waste materials or rubbish caused by construction activities. Trash and rubbish will be collected and disposed of by proper means. Work areas will be maintained in an orderly manner to promote worker safety and promote fire prevention. Work areas will be inspected

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regularly throughout each workday by construction safety personnel and construction supervisors to assure compliance.

Critical to recognize wildland vegetation exposures and the potential of vegetation fires through equipment placement and hot work activities.

### **Fire Extinguishers**

Fire extinguishers shall be provided so that the travel distance from any construction work area (including but not limited to road work, laydown and construction work areas) to the nearest extinguisher is less than 100 feet. When 5 gallons or more of a flammable or combustible liquid is being used, an extinguisher must be within 50 feet.

- Extinguisher must:
  - Be maintained in a fully charged and operable condition.
  - Be visually inspected each month;
    - Inspection tag current
    - Charge – Full
    - Seal tag not broken
    - Proper location
  - The area in front of extinguishers must be kept clear.
  - Post “Exit” signs over exiting doors (i.e., construction trailers, and post “Fire Extinguisher” signs over/at extinguisher locations.
  - Extinguishers that have a total weight of more than 40 pounds should be mounted with the top of the extinguisher no more than 42 inches above the floor.
  - Extinguishers weighing 40 pounds or less may be mounted with the top as high as 5 feet above the floor. (Mounting all extinguishers at the 42 inch height is a good habit.)

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- Annual inspections required by a qualified technician.
- Hydrostatic Testing will be conducted by a qualified technician follow NFPA 10 standards.

### **Welding and Cutting**

Below are the Fire Prevention controls to follow when working around or performing welding and cutting.

- Before welding or cutting is permitted, the area shall be inspected by the individual responsible for authorizing the welding or cutting operation.
- The authorization, preferably in the form of a written permit, shall detail precautions to be taken before work is to begin.
- A qualified fire watch will be dedicated to the hot work scope.
- Suitable fire extinguisher equipment shall be immediately available in the work area.
- Fire hose shall be deployed within the working area.
- Clean combustible free work site shall be priority prior to hotwork operations
- Wind conditions shall be considered prior to operations of hotwork
- Recognize secondary fire potential in the area – Wildland/Brush.
- Flame-resistant blankets shall be used to control sparks produced by welding and cutting operations from traveling to lower levels or adjacent surfaces.
- Welding canopies should be deployed in appropriate areas and conditions.
- If the valve on a fuel-gas cylinder is found to leak around the valve stem, the valve shall be closed, and the gland nut tightened. If this does not stop the leak, the cylinder is to be tagged and removed from service.

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- Nothing should be placed on top of a cylinder or manifold that will damage it or interfere with the quick closing of the valve.
- Flow gages and regulators shall be inspected prior to use and removed from cylinders when not in use.
- Hoses, leads, and cables shall not be routed through doorways and walkways unless covered, elevated, or protected from damage. Where hoses, leads, and cables pass through wall openings, adequate protection shall be provided to prevent damage.
- Flash arresters shall be installed at the torch handle.
- Arc welding electrodes shall not be struck against compressed gas cylinders to strike an arc.
- All arc welding or cutting operations shall be shielded by noncombustible or flame-resistant screens to protect employees or other persons in the vicinity from the direct rays of the arc.

### **Compressed Gas Cylinders**

- Cylinders being transported, moved, or stored shall have valve protection caps installed. When transported by motor vehicle, hoisted, or carried, cylinder shall be in the vertical position.
- Oxygen cylinders in storage shall be separated from fuel-gas cylinders or combustible materials by a minimum of 20 feet or by a noncombustible barrier at least 5 feet high having a fire-resistant rating of at least  $\frac{1}{2}$  hour.
- During use, cylinders shall be kept far enough away from the actual welding and cutting operations to prevent sparks, hot slag, or flames from reaching them. When impractical, fire resistant shields shall be provided.

### **Combustible and Flammable Liquid Storage**

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- Combustible and flammable liquids should be stored in approved containers and tanks appropriate for the product.
- All storage shall be located in appropriate designated locations along with the proper signage.
- Separate storage areas should be provided for water reactive materials and should not be stored in the same location with other flammable or combustible liquids.
- Relation to the types, volumes and duration of combustible and flammable liquids will be coordinated through SCG Environmental Representative.

### **Fire Prevention**

- Before and welding, cutting or hot work of any kind the area will be inspected and if there is any form of foliage that has fire potential it shall be pre wetted and a fire watch will be assigned for at least one hour after last hot work operation.
- A Hot Work permit will be assigned to each hot work operation and will be in place before any hot work is performed.
- When welding or cutting on walls, floors or ceiling, the same precautions shall be taken of the opposite side as for the welding or cutting.
- Proper Signage and barrier “No Smoking or Open Flames” posted next to any service station fuel pumps
- All combustible engines will be Turn Off when fueling
- Office space heater are not allowed and only used in outdoor large construction areas while meeting UL standards and an auto tipping over shut off mechanism.

### **Training**

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Portable fire extinguisher for employees use in the workplace will be provided appropriate training related to the task activities and prevention. Employees should understand general principles of fires extinguisher types, hazards associated to each stage of fire and how to operate the extinguisher through PASS system.

### **Related Documents**

PRO-SAF -0017 Fire Prevention Program