

7.7 WORKER SAFETY AND HEALTH

This section describes the injury and illness prevention programs that will be established and implemented during construction and operation of the proposed CPV Sentinel Energy Project (CPVS). The purpose of these programs is to protect human health and capital resources, and minimize the potential for workplace injuries and illnesses at the facility. The development and implementation of these programs will also ensure compliance with applicable laws, ordinances, regulations and standards (LORS), as established by the California Occupational Safety and Health Administration (Cal/OSHA), California Health and Safety Code, and the Uniform Fire Code (UFC).

The following sections provide a description of the workplace and the anticipated workplace hazards, define the crucial safety programs and related safety training programs, present the applicable LORS, and identify local safety agency contacts and permit requirements.

7.7.1 Workplace Description

The project will consist of 8 GE LMS100 combustion turbines that will have a nominal electrical output of 850 MW. The plant will be constructed, commissioned, and operated by CPV Sentinel, LLC (CPV Sentinel). Operation of the first five turbine units is planned to begin by March 2010, and the final three units are planned to begin operation in May 2010. The power plant will be located on a 37-acre site located within unincorporated Riverside County. This site is currently undeveloped, with the exception of an unoccupied dwelling unit and associated garage located at the southeastern corner of the site. The surrounding area is characterized by industrial use with extensive development of wind energy and transmission lines. The Devers substation is located approximately 700 feet to the west of the project site and the Indigo Energy Facility is located approximately 1.8 miles to the southeast. The residence nearest to the power plant site is located approximately 330 feet to the east.

The power plant will supply power to the Southern California Edison (SCE) electrical transmission grid by connecting the plant switchyard with SCE's existing 230 kV Devers substation west of the site. The power plant will use wet-cooling technology with anticipated water requirements of 1.0 million gallons per day, or 1,100 acre-feet per year. Water for the project will be provided by reclaimed water from Mission Springs Water District Horton Wastewater Treatment Plant (WWTP). Wells on the power plant site will extract the recharged groundwater. Process wastewater will be processed by a crystallizer/zero liquid discharge system.

Offsite improvements will include (1) electrical transmission interconnection to the Devers substation, (2) a natural gas interconnection line, (3) a potable water line, (4) road improvements for site access, and (5) a construction laydown area (Figure 2.4-1).

7.7.2 Occupational Safety and Health

Construction, operation, and maintenance activities associated with the CPVS may expose workers to physical and chemical hazards. Potential worker exposure to these hazards will be minimized through adherence to appropriate engineering design criteria, implementation of appropriate administrative procedures, use of personal protective equipment, and compliance with applicable health and safety LORS.

Potential hazards that workers may be exposed to while working on CPVS are presented in Table 7.7-1. Formal health and safety procedures and programs will be established and implemented for construction and operations to control the various hazards and provide for a safe workplace. Tables 7.2-2 and 7.7-3 present programs for construction and operations training.

The site-specific injury and illness prevention programs and safety training programs, which are intended to protect worker health and safety during construction and operation of the proposed project, are described in the following sections.

7.7.3 Injury and Illness Prevention Programs

Prior to beginning construction activities, CPV Sentinel will develop a site-specific construction injury and illness prevention program. Once the construction of the proposed project is complete, a site-specific injury and illness prevention program for operations and maintenance activities will be implemented. Table 7.7-4 provides an example outline of a construction safety injury and illness prevention program.

7.7.3.1 Construction Injury and Illness Prevention Programs

Consistent with Cal/OSHA's policy on multi-employer work sites, each employer will be responsible for the health and safety of its own employees. Periodic health and safety audits will be conducted by CPV Sentinel to verify contractor and subcontractor compliance with contractual health and safety obligations.

Construction Safety Program. The overall written construction safety program will include provisions to ensure compliance with Cal/OSHA's Injury and Illness Prevention Program (IIPP) requirements (California Code of Regulations [CCR] Title 8, Section 1509) and will include:

- A written Code of Safe Practices that relates to construction operations;
- Identification of the person or persons responsible for implementing the construction safety program;
- Posting of the Code of Safe Practices at a conspicuous location at the job site office, and providing it to each supervisor, who shall have it readily available;
- A description of the system for identifying workplace hazards, including workplace inspections, job hazard analysis, and written hazard assessments;
- Periodic meetings with employee representatives, supervisors, and management to discuss safety issues, including compliance assessments, accidents, injuries, and new or modified health and safety procedures;
- A system for ensuring employee and subcontractor compliance;
- Routine "tool box" or "tailgate" safety meetings conducted with employees and supervisors;
- A system for promoting employees' feedback and suggestions for improving workplace safety;
- Procedures for promptly correcting unsafe conditions; and
- Identification of safety training and experience requirements for specific work activities.

Construction Personal Protective Equipment Program. Contractor employees will use personal protective equipment (PPE) during construction as specified in the construction PPE program. Required PPE shall be identified through hazard assessment and general industry standards. The specific PPE ensemble required for each job task will be specified in the job hazard analysis (JHA) for that task. The use of PPE for site activities includes, but is not limited to, the items described in Table 7.7-5. All PPE

worn onsite will comply with Cal/OSHA and American National Standards Institute (ANSI) requirements. Respiratory protection will be included in the PPE program. Employees will not be required to wear respiratory protection, or to work in areas requiring respiratory protection until they have received a medical evaluation, respirator fit-testing, and training on the proper use, limitations, and care of respirators. Table 7.7-6 provides an example outline of a construction safety personal protection equipment program.

Construction Exposure Monitoring Program. An exposure monitoring program will be developed to evaluate potential employee exposures to hazardous/toxic materials. Potential exposures will be identified during the task-specific JHAs. Air monitoring may be conducted if necessary to evaluate the potential for employee exposures to the contaminants of concern. Airborne exposures will be controlled through the implementation of engineering controls, administrative controls, or PPE. Air monitoring will also be required in support of other safety programs, including confined space entry, hot work permits, and emergency response. Sound-level monitoring will also be performed as necessary during the construction phase, and initially during new facility operation to evaluate potential employee noise exposures.

Construction Emergency Action Plan. An Emergency Action Plan will be developed specifically for the construction phase of the proposed project. The Emergency Action Plan will designate responsibilities and actions to be taken in the event of an emergency at the site. All employees working at the site will be trained on the contents of the program. The Emergency Action Plan will include:

- Emergency roles and responsibilities;
- Emergency notification procedures; and
- Egress routes and mustering points.

Construction Written Safety Programs. Additional written safety programs that will be established for the construction phase include, but are not limited to:

- Hazard communication program;
- Confined space program;
- Control of hazardous energy program (Lock Out/Tag Out);
- Hearing conservation program;
- Respiratory protection program;
- Blood-borne pathogens control program;
- Injury and accident reporting and investigation program;
- Ergonomics program;
- Emergency response program, including first aid and medical services;
- Smoking policy;
- General housekeeping, material handling, and storage procedures;
- Vehicle and traffic procedures;
- Elevated work procedures;
- Heavy equipment procedures;
- Hot work procedures;
- Crane and hoist procedures;
- Compressed gas and air handling procedures;
- Subcontractor safety programs;
- Equipment inspection programs;
- Supervisor safety and health orientations;
- Excavation and trenching program; and
- Hazard identification team and safety marshal program.

7.7.3.2 Operations and Maintenance Injury and Illness Prevention Programs

Upon completion of construction, startup of the proposed project, and implementation of routine operations, the construction injury and illness prevention programs will transition into an operations-oriented program that reflect the hazards and controls necessary during routine operations and maintenance of CPVS. CPV Sentinel will use existing injury and illness prevention programs that are established at similar power generation facilities currently operates as templates for the CPVS site-specific program. The CPVS program will reflect any unique hazards specifically associated with maintenance and operation of this facility.

Program outlines for the operations safety programs that will be implemented are provided below. These include an Injury and Illness Prevention Plan, Fire Protection and Prevention Plan, Emergency Action Plan, Hazardous Material Management Program, and PPE Program and Operations and Maintenance Written Safety Program.

Injury and Illness Prevention Plan. The primary mitigation measures for worker hazards during normal plant operation and maintenance are contained in the IIPP, as required by 8 CCR, Section 3203. The written IIPP designates an individual who is responsible for implementing the program. It also describes safety training and procedures for tracking safety training. JHAs identify safety hazards related to work tasks and establish procedures for avoiding, correcting, reporting, and notifying employees of these hazards.

An IIPP contains the following information and procedures:

- Identity of the person(s) with authority and responsibility for implementing the program;
- A system for ensuring that employees comply with safe and healthy work practices;
- A system for facilitating employer–employee communications regarding safety;
- Procedures for identifying and evaluating workplace hazards, including inspections to identify hazards and unsafe conditions;
- Methods for correcting unhealthy/unsafe conditions in a timely manner;
- An employee training program that includes:
 - introducing the program;
 - training of new, transferred, or promoted employees;
 - training on new processes and equipment;
 - supervisors training; and
 - evaluation of contractor training.
- Methods of documenting inspections and training, and for maintaining appropriate records.

Table 7.7-7 provides an example outline of an injury and illness prevention plan.

Emergency Action Plan. In addition to incorporating various safety and environmental features and design measures to minimize emergencies and their effects on public and worker safety, the CPVS will have a site-specific Emergency Action Plan. The outline for the CPVS Emergency Action Plan is provided in Table 7.7-8. The Emergency Action Plan will address potential emergencies, including chemical releases, fires, bomb threats, pressure vessel ruptures, aqueous ammonia releases, and other catastrophic events. It describes evacuation routes, alarm systems, points of contact, assembly areas, responsibilities, and other actions to be taken in the event of an emergency. The plan includes a layout map, a fire extinguisher list, and a description of arrangements with local emergency response agencies for responding to emergencies.

Hazardous Materials Management Program. As described in Section 7.12, several chemicals will be stored and used during operation of the CPVS. The storage and handling of chemicals will follow applicable LORS to minimize risk to workers and the surrounding community. Chemicals will be identified and stored in appropriate chemical storage facilities. Bulk chemicals will be stored in aboveground storage tanks; other chemicals will be stored in their delivery containers. Chemical storage and chemical feed areas will be surrounded by temporary or permanent containment or curbing to contain leaks and spills. The containment areas will be sized to hold an appropriate volume (considering the potential for the local hazard contingencies) as designated by a California Registered Professional Engineer.

Safety showers and emergency eyewash stations or bottles will be provided at all chemical treatment and storage areas, laboratories, and battery rooms in accordance with 8 CCR requirements (within 50 feet, or 10 seconds of travel time). Standard PPE for use during chemical handling activities will be provided. Self-contained breathing apparatus sets will be available in the Control Room. First-aid kits will be located in work areas around the plant. Fire blankets and evacuation stretchers will be located in the control building. Standard PPE will be readily available for use during minor chemical spill containment and cleanup activities by plant personnel. Adequate supplies of absorbent material will also be available on site for minor spill cleanup. A hazardous material emergency response team, trained in managing the accidental release of the chemicals used and stored at the plant, will be available through contract. Emergency contact numbers will be available to summon assistance from these contractors and for notification of local agencies. These procedures will be detailed in the Emergency Action Plan.

Personal Protective Equipment Program. PPE requirements for work at CPVS will be identified during the job hazard analyses process. The PPE requirements will be developed and incorporated into the site-specific injury and illness prevention program. The PPE program will include the following:

- Hazard analysis and prescription of PPE;
- Personal protective devices;
- Head protection;
- Eye and face protection;
- Body protection;
- Hand protection;
- Foot protection;
- Safety belts and life lines;
- Protection for electric shock; and
- Respiratory protective equipment.

Table 7.7-9 provides an example outline of an operations personal protective equipment program.

Operations and Maintenance Written Safety Program. Additional written safety programs will be developed and implemented as necessary to address hazards that are identified with operation and maintenance of CPVS. These programs will be made components of the overall operations and maintenance injury and illness prevention program for the CPVS facility. These programs include, but are not limited to, the following:

- Blood-borne pathogens control program;
- Hazard communication program;
- Hearing conservation program
- Hazardous energy control program;
- Confined space entry program;
- Safe work practices program;

- Ergonomics program;
- General facility safety procedures:
 - Compressed gas safety procedures;
 - Heavy equipment safety procedures;
 - Hand tools and equipment guarding procedures;
 - Hoist and rigging safety procedures;
 - Slips, trips, and falls prevention procedures; and
 - Hot work safety procedures;
- Fall protection program;
- Contractor safety program; and
- Risk management plan (RMP).

7.7.4 Safety Training Programs

To ensure that employees recognize and understand how to protect themselves from hazards at the CPVS, comprehensive training programs for construction and operations personnel will be implemented. The following sections provide an overview of the training programs that will be required for workers at CPVS.

7.7.4.1 Construction Safety Training Program

Workers participating in the construction phase of the proposed project will participate in applicable training programs designed to protect workers and others from injuries while working at the site. All construction personnel will be required to attend a basic site safety orientation training course. Additional training will be provided to each individual based specifically on their job responsibilities or craft for those requirements where previous satisfactory training cannot be documented. All training courses will be documented and attendance records will be maintained at a centralized location. Table 7.7-2 provides an overview of the training programs that will be available to construction personnel.

7.7.4.2 Operation and Maintenance Safety Training Programs

Operations and maintenance employees assigned to the proposed project will be given instructions regarding their responsibility for the safe conduct of their work. These instructions will be given at the time the employee is first hired and as an ongoing training program of hazard recognition and avoidance. Employees will also be instructed in safety procedures pertinent to their employment tasks. Safe working conditions, work practices, and protective equipment requirements will be communicated in the following manner:

- A new, promoted, or transferred employee will receive safety training orientation;
- Safety meetings will be held with employees;
- “Toolbox/tailgate” safety meetings will be conducted periodically for each crew. General safety topics and specific hazards that may be encountered will be discussed. Comments and suggestions from all employees will be encouraged;
- A periodic staff safety meeting will be held for supervisors;
- Hazard communication training, including California Proposition 65 warnings and discharge prohibitions, will be conducted as necessary when new hazardous materials are introduced to the workplace;

- Material safety data sheets will be available as required for all appropriate chemicals;
- A bulletin board with required postings and other information will be maintained at the plant site; and
- Warning signs (e.g., hazardous waste storage area, confined space area) will be posted in hazardous areas that comply with applicable regulations (i.e., bilingual, font size).

Safety training will be provided to each new employee as described below:

- A list of safe work rules for the CPVS facility will be explained to each new employee;
- A copy of the applicable Safe Work Practices will be given to each new employee. The provisions will be incorporated into training for the qualifications programs so that employees may fully understand what the protective provisions mean;
- The Hazard Communication Program and requirements for personal protection for the types of hazards that may be encountered at the CPVS facility site will be explained and documented;
- Unusual hazards that are found on site will be explained in detail to each new employee, including any specific requirements for personal protection; and
- Safety requirements for the new employee's specific job assignment will be explained by the foreman upon initial assignment and upon any reassignment.

Table 7.7-3 provides an overview of the training programs that will be available to operations and maintenance personnel.

Contractors. An element of the Operations and Maintenance Safety Training Program includes addressing compliance with contractor safety while on site. Contractors will be provided with a list of potential job safety hazards for their assigned activity by a foreman, including safety rules, chemical exposure hazards, physical hazards, and personal protection equipment. Contractors will also be invited to attend "tailgate" safety meetings.

7.7.5 Fire Protection

The fire suppression and protection procedures as they pertain to construction and operation of the proposed project are presented in Section 7.7.5.1. Section 7.7.5.2 presents a detailed description of fire protection systems that will be installed at CPVS.

7.7.5.1 Construction Fire Suppression and Prevention

Onsite Construction Fire Suppression and Prevention. The CPVS project will rely on both onsite fire protection systems and local fire protection services. The contractor will develop a Fire Protection and Prevention Plan to be followed throughout all phases of construction and will provide the specified fire-fighting equipment. The fire protection and prevention program will address each of the following requirements:

- General requirements;
- Responsibilities;
- Housekeeping;
- Employee alarm/communication system;

- Portable fire extinguishers;
- Fixed fire fighting equipment;
- Fire control;
- Perimeter fire buffer maintenance;
- Flammable and combustible liquid storage;
- Use and handling of flammable and combustible liquids;
- Dispensing and disposal of flammable and combustible liquids;
- Servicing and refueling areas; and
- Training.

Table 7.7-10 provides an example outline of a construction safety fire protection and prevention program.

During construction, portions of the facility fire suppression system will be placed in service as soon as practicable to provide early fire protection. The fire protection systems for the facility are described in Section 2.4.8. Construction fire prevention procedures will be developed in accordance with applicable regulations (8 CCR, Section 1620 et seq.) and will be followed as necessary to prevent construction-related fires. Special emphasis will be given to operations involving open flames, such as welding, metal cutting, and brazing. Hot work permits will be required for specific activities that present a potential for fire, and personnel involved in such operations will receive appropriate training by the contractor. In addition, a fire watch, using the appropriate class of extinguishers or other equipment, will be maintained during hot work operations. Site personnel will not be expected to fight fires past the incipient stage.

Materials brought on site by contractors must conform to contract requirements, insofar as flame resistance or fireproof characteristics are concerned. Specific materials in this category include fuels, paints, solvents, plastic materials, lumber, paper, boxes, and crating materials. Specific attention will be given to compressed gases and storage of fuels, solvents, and paint.

Elements of the onsite fire suppression system during construction will consist of portable and fixed fire-fighting equipment. Portable fire fighting equipment will consist of fire extinguishers and small hose lines in conformance with Cal/OSHA and the National Fire Protection Association (NFPA). Periodic fire prevention inspections will be conducted by the contractor's safety representative.

Fire extinguishers will be inspected monthly and replaced immediately if defective or in need of recharge. All fire-fighting equipment will be located to allow for unobstructed access to the equipment and will be conspicuously marked. A temporary or permanent water supply, of sufficient volume, duration, and pressure to operate the required fire-fighting equipment, will be provided. Combustible materials will be controlled in covered roll-off dumpsters. Designated, approved flammable materials storage areas and flammable materials storage containers will be provided with adequate fire prevention systems.

Desert vegetation on and adjacent to the work site may present a significant fire hazard. The percentage of the project areas that has groundcover vegetation is approximately 80 to 90 percent, with few areas of sandy or gravelly bare ground. The Sonoran creosote bush scrub is the dominant vegetation community in the project areas and surrounding area. Fires may be started by parking hot vehicles on top of light flashy fuels such as tall grasses, by sparks from drilling equipment or other tools striking rocks, or by cigarettes tossed from passing vehicles. Employees will be made aware of the potential for fires, and will be prepared to respond quickly to grass fires. Employees will also be aware that sloped areas and high wind conditions may cause a fire to spread more quickly. A detailed inspection of the work area will be conducted to determine whether potential fire sources exist; if they do, they must be moved at least 35 feet away from the site before work can commence. This includes flattening tall grasses and spraying them down with water. Vehicle parking areas will be sprayed as well, and employees will avoid parking in tall grass.

Offsite Construction Fire Suppression Support. The CPVS onsite fire suppression system will be supported by the Palm Springs Fire Department (PSFD). The PSFD will provide backup assistance and support to CPVS in the event of a construction-related fire. The PSFDs response time to response time to the site is estimated to be approximately 10 minutes (Chief Ventura, 2007). The local fire response units will be provided information regarding the type and location of potential fire hazards at the site. This information will be included in emergency response planning.

7.7.5.2 Operations Fire Suppression and Prevention

Fire protection at the proposed project will include measures relating to safeguarding human life, preventing personnel injury, preserving property, and minimizing down time due to fire or explosion (National Safety Council, 1992). It will principally involve physical arrangements, such as sprinkler systems, water supplies, and fire extinguishers. Fire protection measures will include measures to prevent the inception of fires. Of concern are adequate exits, fire-safe construction, reduction of ignition sources, and controlling fuel sources.

The PSFD has fire protection responsibility for the CPVS facility. As such, fire suppression systems will be subject to review and approval by the PSFD, which will have final approval responsibility. In addition, facilities will be designed by a California Registered Fire Protection Engineer, and fire protection equipment will be installed and maintained in accordance with applicable NFPA standards and recommendations (National Fire Protection Association, 1994).

The PSFD representative will perform the final inspection of the proposed project when construction is complete. In addition, the PSFD will conduct periodic fire and life safety inspections thereafter, including reviewing and approving programs for regular equipment inspections and servicing and for the training of employees in fire protection procedures. In addition, the project's insurance carrier will provide periodic inspections by a fire protection specialist. Servicing of the fixed carbon dioxide (CO₂) and portable fire extinguishers will be conducted by the manufacturer or a licensed contractor.

The overall fire prevention and protection program for the facility will be designed and implemented to protect both personnel and property. The program will specifically address:

- Names and/or job titles of staff responsible for maintaining equipment and controlling accumulation of flammable or combustible material;
- Procedures in the event of fire;
- Fire alarm and protection equipment;
- System and equipment maintenance;
- Perimeter fire buffer maintenance;
- Monthly inspections;
- Annual inspections;
- Fire-fighting demonstrations and training; and
- Housekeeping practices.

Table 7.7-11 provides an example outline of an operations fire prevention plan.

Fire Suppression. The following fire suppression systems are proposed:

- **Fire Water System.** The fire water supply and pumping system provide an adequate quantity of fire-fighting water to yard hydrants, hose stations, and water spray and sprinkler systems. The system is capable of supplying maximum water demand for any automatic sprinkler system, plus water for fire hydrants and hose stations.

The primary source of fire water is the raw/fire water storage tank. A plant fire water loop is provided to reach all parts of the facility. The fire water system has sectionalizing valves to allow a failure in any part of the system to be isolated. The remainder of the system is then able to function properly. Hydrants and hose houses are placed at appropriate spacing around the plant. The hydrants are located and the hose houses equipped in accordance with NFPA 24 and local fire codes. Fire water monitors are placed where they can reach equipment that may need cooling during a fire event. Valves requiring periodic testing are accessible.

Three pumps supply the plant fire water system. A small electric-driven jockey pump ensures that the fire water loop remains pressurized. An electric-driven pump starts automatically if the pressure in the fire water loop drops below a specified set point. A diesel-engine-driven pump starts automatically if the pressure in the fire water loop drops below a lower set point. The fire pump(s) run until manually stopped. Fire pump installation is in accordance with NFPA 20. The design capacity of the plant's fire water system is approximately 2,000 gpm.

- **Fire Alarm and Detection.** The main fire control panel, located in the station Control Room, annunciates activation of a fire protection/detection system by location zones. The panel is designed to operate on 120 VAC power through the UPS system. The alarm and detection system is designed to comply with NFPA 70 and 72.
- **Alarms.** Local building fire pull boxes and audible alarms are provided. Flashing lights are used in addition to audible alarms in high noise areas.
- **Sprinkler System.** Automatic fire protection systems are provided in the plant Control Room in accordance with NFPA.
- **Portable Extinguishers.** Portable CO₂ and dry chemical extinguishers are located throughout the plant, including switchgear rooms, with size, rating, and spacing in accordance with NFPA 10. Handcart CO₂ extinguishers are provided for the turbine area as needed for specific hazards.

7.7.5.3 Fuel Handling System

Natural gas will be the only fuel used by the eight new CTGs. Natural gas will be supplied via a 24-inch-diameter underground pipeline that will connect the CPV Sentinel to one of two 30-inch Southern California Gas Company (SoCalGas) pipelines located along the south side of I-10. The project will interconnect to one of two of these 30-inch pipelines by extending a 24-inch branch line that is currently stubbed adjacent to the Indigo Energy Facility approximately 1.8 miles southeast of the site.

As the pipeline enters the site, the fuel gas will pass through filter separators, metering and pressure/flow control stations provided in the gas metering station located in the southwestern area of the site, adjacent to the construction heavy haul road. The gas will then be routed from the gas metering station area to the gas compression building. The gas compressor building is located in the northwestern portion of the site, adjacent to the water treatment area.

The natural gas will be delivered to the CPVS from the 24-inch pipeline at an approximate pressure range of 350 to 550 pounds per square inch (gauge) psig. Nominal full load fuel consumption will be 6,500 million Btu/hr (LHV). As the pipeline enters the site, the fuel gas will pass through metering and any required pressure/flow control stations provided in the gas metering station. The gas metering station will be located along the southeastern portion of the site.

The gas will then be routed from the gas metering station area to the gas compression buildings, where it will pass through compressors to reach the required operational pressure of approximately 950 psig, plus or minus 20 psig. A total of seven gas compressors, five each sized for two Units and two each sized for one Unit will operate when the gas pressure falls below the required operational pressure. The gas compressor buildings are located on the eastern portion of the site.

After the pipeline enters the site, the natural gas will be further conditioned at each gas compressor building. The fuel gas compression scope will include inlet scrubbers, fin-fan gas coolers, and discharge coalescing filters. A final fuel filter will be installed at each combustion turbine.

The natural gas pipeline is expected to be constructed in 5 months, from June 2009 to October 2009.

7.7.6 Laws, Ordinances, Regulations, and Standards

The LORS applicable to worker safety and health are summarized in Table 7.7-12. California operates its own Occupational Safety and Health Administration. As such, Cal/OSHA regulations will take precedence over the federal OSHA regulations at this site. The proposed project will operate in accordance with all laws, ordinances, regulations, and standards applicable to worker health and safety. Construction, operation, and maintenance of the CPVS will be performed in conformance with the LORS as presented in Table 7.7-12. Effective development and implementation of the safety plans and programs described in this section, and implementation of an ongoing, comprehensive safety assessment program will ensure compliance with the established health and safety regulations.

7.7.7 Involved Agencies and Agency Contacts

Agency contacts regarding worker health and safety at the CPVS facility are as follows:

Issue	Agency/Address	Contact/Title	Telephone
Fire protection	City of Palm Springs Fire Department 300 N. El Cielo Road Palm Springs, CA 92262	Carl Thibeault, Fire Marshal	(760) 323-8186 (non-emergency)
Fire protection	City of Palm Springs Fire Department 300 N. El Cielo Road Palm Springs, CA 92262	Chief Scott Ventura	(760) 323-8186 (non-emergency)
Building Inspection	City of Palm Springs Building Department	Bob Rose, Plans Examiner (Employed by Fire Department)	(760) 323-8184
Worker health and safety	Cal/OSHA (District Office) 464 West 4th Street, Suite 332 San Bernardino, CA 92401	On Call Safety Engineer	(909) 383-4321 Fax (909) 383-6789
Pressure vessel permit	Pressure Vessel Unit District Office Division of OSHA 2000 E. McFadden, Suite 215 Santa Ana, CA 92705	Safety Engineer	(714) 567-7208 Fax (714) 567-7297

7.7.8 Permits Required and Permit Schedule

Responsible Agency	Permit/ Approval	Schedule
<p>Any Cal/OSHA district or field office</p>	<p>Construction Activity Permit</p> <p>A construction activity permit is required for:</p> <ul style="list-style-type: none"> • Construction of trenches or excavations that are 5 feet or deeper and into which a person is required to descend • Construction of any building, structure, scaffolding or falsework more than three stories high or an equivalent height (36 feet) • Demolition of any building or structure, or dismantling of scaffolding or falsework more than three stories high or an equivalent height (36 feet) • Erection or dismantling of vertical shoring systems more than three stories high, or an equivalent height (36 feet) <p>The construction activity permit process is as follows:</p> <ul style="list-style-type: none"> • The permit applicant will schedule a safety permit conference appointment with the nearest Cal/OSHA district office. • The safety permit conference shall be attended by the permit applicant, who must be knowledgeable about and in a position of authority and responsibility with respect to the permitted activity. • The potential safety and health risk of the activity shall be discussed, and the contractor shall identify specific measures to be taken to minimize these risks to employees. • Details of the activity shall be reviewed along with Title 8 Safety Orders applicable to the activity in which the permit applicant will engage. • The permit applicant shall provide enough detail about the construction activity to allow the district office to make a reliable determination that the activity will proceed safely. The applicant shall provide the following for evaluation and review: <ul style="list-style-type: none"> – Applicant’s completed permit application form – Applicant’s completed activity notification form or activity notification form for holders of annual permits 	<p>Safety permit conference must be scheduled at least two weeks prior to beginning of construction.</p>

Responsible Agency	Permit/ Approval	Schedule
	<ul style="list-style-type: none"> – Copy of the permit applicant’s IIP Program – Copy of the permit applicant’s Code of Safe Practices <p>Permit forms and checklists may be found online at http://www.dir.ca.gov/DOSHPol/P&PC-41.htm</p>	
Any Cal/OSHA district or field office	<p>Trenching and Excavation Permit</p> <p>A trenching and excavation permit is required for the following:</p> <ul style="list-style-type: none"> • Trenches and excavations more than 5 feet into which personnel are required to enter or that are adjacent to structures • Construction of buildings, structures, scaffolding or falsework more than three stories high • Demolition of any building, structure, or the dismantling of scaffolding or falsework more than three stories high 	Submit completed permit application to any Cal/OSHA district or field office prior to commencing construction; submit at least 24 hours prior to “trigger event.”
Any Cal/OSHA Administration district or field office	<p>Permit for Crane</p> <p>Permit for the erection of a fixed tower crane is required for the following:</p> <ul style="list-style-type: none"> • Erection, • Climbing, and • Dismantling of fixed tower cranes <p>Notifications to the Cal/OSHA must be made at least 24 hours prior to the initiation of the following activities:</p> <ul style="list-style-type: none"> • Completion of erection and commencement of operation • Climbing of the tower crane • Dismantling of the tower crane 	Submit completed permit application to any Cal/OSHA district or field office; submit at least 24 hours prior to “trigger event.”
Pressure Vessel Unit District Office, Division of OSHA	Pressure Vessel Permit	4 to 6 weeks

Cal/OSHA = California Occupational Safety and Health Administration

7.7.8.1 Permitting Agencies

The table above provides a list of applicable permits related to the protection of worker health and safety applicable to the proposed project. The activities covered and application requirements to obtain the permit and provided for each type of permit.

7.7.8.2 Permitting Contacts

All permits noted in the table above may be obtained from the Cal/OSHA district office, which, for work places in Palm Springs and Riverside County, is located in San Bernardino, California (909) 383-4321.

7.7.8.3 Permitting Schedule

A safety permit conference must be scheduled with the local Cal/OSHA office at least two weeks prior to the start of construction. Other permits listed above are supplied on an as-needed basis by any Cal/OSHA district or field office. Notification requirements are listed as “within 24 hours of a permit triggering event”; therefore, a specific permitting schedule is not provided, as the permits may be required at various times during the construction of the plant or during operations.

7.7.9 References

California Code of Regulations, No date. Title 8. General Industry Safety Orders, (Chapter 4, Subchapter 7) and Construction Safety Orders (Chapter 4, Subchapter 4).

Code of Federal Regulations, No date. Title 29 part 26. Health and Safety for Construction and Title 29 Part 1910 Occupation Safety and Health Standards.

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Palm Springs Fire Department, 2007. Personal telephone communication with Chief Scott Ventura. April 13, 2007.

Table 7.7-1 Construction, Operation and Maintenance Hazard Analysis (Page 1 of 3)			
Activity	Exposure Potential	Potential Hazard	Control Strategies
Heavy equipment operation	C, O, M	Employee injury and property damage from collisions with workers and/or facility equipment.	Implement heavy equipment safety program, ensure that equipment is routinely inspected and operators are properly trained.
Trenching and excavation	C, M	Employee injury and property damage from collapse of trenches and excavations or contact with underground utilities.	Implement an excavation and trenching safety program, ensure operators are properly trained. Require digging permits prior to initiating excavation or trenching.
Vehicle operation	C, O, M	Employee injury from vehicle accident or pedestrian/vehicle accident.	Implement vehicle safety program that incorporates driver safety training.
Work at elevation	C, O, M	Employee injury due to falls from the same level and elevated work areas.	Implement a fall protection program that requires fall protection systems whenever unprotected work is performed at greater than 6 feet.
General project work	C, O, M	Employee injury resulting from a slip, trip, or fall.	Maintain good housekeeping, adequate lighting, compliant stairways, and railings.
Crane and derrick operation	C, M	Employee injuries and property damage due to falling loads.	Implement hoisting and rigging safety program, inspect equipment routinely and ensure that operators are properly trained.
Hot work	C, O, M	Employee injuries and property damage due to fire or explosion.	Implement fire protection and prevention program, require Hot Work permits, ensure that welders, pipe fitters, etc., are properly trained.
Working with combustible liquids	C, O, M	Employee injuries and property damage due to fire or explosion.	Implement fire protection and prevention program that includes proper procedures for the proper storage and use of flammable or combustible liquids.

**Table 7.7-1
Construction, Operation and Maintenance Hazard Analysis
(Page 2 of 3)**

Activity	Exposure Potential	Potential Hazard	Control Strategies
Concrete/forms work	C	Employee injuries due to work at height, slips, trips, and falls.	Wear fall protection when working at height, protect exposed rebar, and maintain good housekeeping.
Electrical work	C, O, M	Employee injuries due to contact with energized parts.	Implement energy control program, including LO/TO of energized sources.
Materials handling	C, O, M	Employee injuries due to improper lifting.	Implement an ergonomics program, and train employees in proper lifting techniques.
Confined space entries	C, M	Employee injuries due to suffocation, exposure to toxic materials, engulfment, etc.	Implement a confined space program, including permit procedures and air monitoring requirements.
Compressed gas storage	C, O, M	Employee injuries and equipment damage due to explosive release of pressure.	Implement a compressed gas safety program, including procedures for proper use and storage.
Power tool use	C, O, M	Employee injuries due to improper use, or use of damaged power tools.	Implement procedures for inspecting power tools before operation and train employees on the proper use and care of power tools.
Working with or near hazardous or toxic materials	C, O, M	Employee injuries due to exposure to hazardous and/or toxic materials.	Implement hazard communication program and exposure control procedures including engineering controls, administrative controls, and PPE for activities that may expose employees to hazardous/toxic materials.
Working with or near noisy equipment	C, O, M	Employee overexposure to noise.	Implement a hearing conservation program to include identifying high noise activities and sources, sound level monitoring, and PPE.
Working with or near exposed machinery	C, O, M	Employee injuries from entanglement in rotating or moving equipment.	Develop and implement machine guarding equipment LO/TO procedures.

**Table 7.7-1
 Construction, Operation and Maintenance Hazard Analysis
 (Page 3 of 3)**

Activity	Exposure Potential	Potential Hazard	Control Strategies
Work outdoors	C, O, M	Employee injury or illness from biological hazards such as ticks, snakes, spiders and wildlife.	Develop and implement procedures for outdoor work that warn employees of the potential for exposure and provide guidelines for avoidance of contact with biological hazards.
Work in weather extremes	C, O, M	Employee injury or illness due to heat or cold stress.	Develop and implement procedures for work in hot and cold environments that provide for employee monitoring, appropriate clothing and other guidance.
C = Construction Phase LO/TO = Lockout/tagout		O = Facility Operations M = Facilities Maintenance	

Table 7.7-2 Construction Training Program	
Training Course	Target Employees
Site Safety Orientation	All
Injury and Illness Prevention Plan	All
Emergency Action Plan	All
PPE Program	All
Heavy Equipment Safety Program Forklift Operator Training	Employees working on, near, or with heavy equipment
Trenching and Excavation Safety Program	Employees working on or near trenches or excavations.
Fall Protection Program	Employees required to work at elevation (> 6 feet).
Scaffolding Safety Program	Employees required to erect or use scaffolding
Hoisting and Rigging Safety Program	Employees responsible for performing and/or supervising hoisting and rigging.
Crane Safety Program	Employees supervising or performing crane operations
Flammable and Combustible Liquid Storage and Handling	Employees responsible for the handling and storage of flammable or combustible liquids or gases
Hot Work Permits	Employees performing hot work
Hazardous Energy Control (Lockout/Tagout)	Employees performing lockout/tagout
Electrical Safety	Employees required to work on electrical systems and equipment
Permit Required Confined Space Entry	Employees required to supervise or perform confined space entry
Hand and Portable Power Tool Safety	All
Housekeeping Policy and Program	All
Hearing Conservation	All
Safe Lifting Program	All
Safe Driving Program	Employees supervising or driving motor vehicles
Hazard Communication	All
Pressure Safety	Employees supervising or working on pressurized systems or equipment
Line Breaking Safety	Employees performing general maintenance or working on pressurized systems or equipment
Respiratory Protection Program	All employees required to wear respiratory protection
Fire Prevention Program	All
Emergency Action Plan	All
HAZWOPER/First Responder	Employees working around hazardous materials or waste

Table 7.7-3 Operations and Maintenance Training Program (Page 1 of 2)	
Training Course	Target Employees
Site Safety Orientation	All
Injury and Illness Prevention Plan	All
Emergency Action Plan	All
PPE Program	All
Trenching and Excavation Safety Program	Employees performing or supervising trenching or excavation work
100% Fall Protection Program	Employees required to use fall protection
Hoisting and Rigging Safety Program	Employees responsible for the oversight or conduct of hoisting and rigging
Forklift Operator Training	Employees working on, near, or with forklifts
Crane Safety Program	Employees supervising or performing crane operations
Flammable and Combustible Liquid Storage and Handling	Employees responsible for the handling and storage of flammable or combustible liquids or gases
Hot Work Permits	Employees performing hot work
Hazardous Energy Control (Lockout/Tagout)	Employees performing lockout/tagout and working in the vicinity of locked out equipment
Electrical Safety	Employees required to work on electrical systems and equipment
Permit Required Confined Space Entry	Employees required to supervise or perform confined space entry
Hand and Portable Power Tool Safety	All
Housekeeping Policy and Program	All
Hearing Conservation	All
Safe Lifting Program	All
Safe Driving Program	Employees supervising or driving motor vehicles
Hazard Communication	All
Pressure Safety	Employees supervising or working on pressurized systems or equipment
Line Breaking Safety	Employees performing general maintenance or working on pressurized systems or equipment

Table 7.7-3
Operations and Maintenance Training Program
(Page 2 of 2)

Training Course	Target Employees
Relief Valve Maintenance and Testing	Employees performing maintenance or testing of relief valves
Respiratory Protection Program	All employees required to wear respiratory protection
Fire Prevention Program	All
Fire Protection Program	All
HAZWOPER/First Responder	Employees responding to emergency spills of hazardous waste or materials

Table 7.7-4 Construction Safety Injury and Illness Prevention Plan Example Outline 8 CCR 1509	
1.0	Introduction
1.1	Purpose
1.2	Scope
2.0	Responsibilities
2.1	Management
2.2	Safety Department
2.3	Site Safety Officer
2.4	Employees
2.5	Contractors
3.0	Communications
3.1	Tailgate Safety Meetings
3.2	Employee Suggestions
3.3	Anonymous Reporting
4.0	Hazard Assessment
4.1	JOB HAZARD ANALYSIS
4.2	Hazard Mitigation
4.3	Site Inspections
4.3	Accident Investigation
4.4	Corrective Actions
5.0	Program Evaluation/ Compliance
6.0	Training
7.0	Recordkeeping

Table 7.7-5 Protective Equipment Guide (Page 1 of 2)		
Body Area	Hazards	Recommended Protection
Eyes/Face	Low-velocity flying particles	Safety glasses with side shields
	High-velocity chips and sparks	Impact goggles or safety glasses with full face shield
	Corrosive liquid splash during transfer	Splash proof goggles and face shield
	Welding – injurious light rays	Welding hood with appropriate eye filter lenses
Head/Ears	General overhead hazards, overhead rigging, material handling, maintenance, and general construction operations	Nonconductive hard hat
	Noise exposure	Ear plugs or muff
Respiratory System	Low-hazard inert dust	Nuisance dust mask
	Welding fumes	Dust, fume, mist respirator
	Low concentration solvent vapors	Cartridge-type air purifying respirator with organic vapor cartridges
	Acid or base mists	Cartridge-type air purifying respirator with appropriate acid/base cartridges
	High-concentration dusts or toxic vapors, gases	Air line respirator
	Oxygen deficient atmospheres, immediately dangerous to life and health concentrations of vapors, gases	Self-contained breathing apparatus
Hands and Arms	Handling rough or sharp objects	Leather gloves
	Handling hot objects	Insulated gloves
	Using solvents	Chemical-resistant synthetic gloves
Feet and Legs	General wear for light handling	Safety shoes
	Handling heavy objects	Steel-toed safety shoes
	Using brush hooks or scythes	Shin guards
	Working with corrosive liquids	Chemical resistant safety boots
	Underground work	Synthetic safety toe boots

Table 7.7-5 Protective Equipment Guide (Page 2 of 2)		
Body Area	Hazards	Recommended Protection
Trunk and Full Body	Normal work attire	Cotton pants and shirt
	Hot or corrosive liquids	Chemical-resistant apron or full body suit
	Punctures, impact, or cuts	Canvas or leather kickback apron or metal mesh apron
Fall Protection/Rescue	Working from elevated structure or platform without standard railings	Full body safety harness and lanyard
	Vessel (confined space) entry	Full body safety harness and lifeline or wristlets and lifeline
	Suspended scaffolds	Full body safety harness/lanyard

Table 7.7-6
Construction Safety Personal Protection
Equipment Program Example Outline
8 CCR 1514-1522

1.0	Introduction
1.1	Purpose
1.2	Scope
2.0	Responsibilities
2.1	Management
2.2	Site Safety Officer
2.2	Employees
3.0	Personal Protective Equipment
3.1	Eyes and Face
3.2	Head and Ears
3.3	Respiratory System
3.4	Trunk and Full Body
3.5	Fall Protection
3.6	Hand and Arms
4.0	Training
5.0	Program Review
6.0	Recordkeeping

Table 7.7-7 Operations Injury and Illness Prevention Program Example Outline 8 CCR 3203	
1.0	Introduction
1.1	Purpose
1.2	Scope
2.0	Responsibilities
2.1	Management
2.2	Safety Department
2.3	Site Safety Officer
2.4	Employees
2.5	Contractors
3.0	Communications
3.1	Safety Committee
3.1	Safety Meetings
3.2	Employee Suggestions
3.3	Anonymous Reporting
4.0	Hazard Assessment
4.1	JOB HAZARD ANALYSIS
4.2	Hazard Mitigation
4.3	Site Inspections
4.3	Accident Investigation
4.4	Corrective Actions
5.0	Program Evaluation/Compliance
6.0	Training
7.0	Recordkeeping

Table 7.7-8 Operations Emergency Action Plan Example Outline 8 CCR 3220			
1.0	Introduction	4.7	Emergency Plant Shutdown
	1.1 Purpose	4.8	Site Security
	1.2 Scope	4.9	Emergency Medical Treatment and
2.0	Responsibilities		First Aid
	2.1 Emergency Response Coordinator	4.10	Decontamination
	2.2 Alternate Emergency Evacuation Coordinator	4.11	Documentation and Recordkeeping
	2.3 Safety Coordinator	4.12	News Media
	2.4 Position Description Assignments	4.13	Emergency Notification List
	2.5 Construction/Facility Manager	4.14	Emergency Telephone Numbers List
	2.6 Construction/Facility Supervisor	5.0	Reference Procedures
	2.7 Operators	5.1	Evacuation Plan
	2.8 Health and Safety Manager	5.2	Emergency Equipment Locations
	2.9 Security	5.3	Fire Extinguisher Locations
3.0	Response and Notification Plan (Points of Contact)	5.4	Security
	3.1 Supervisor/Emergency Coordinator	5.5	Accident Reporting and Investigation
	3.2 Health and Safety Manager	5.6	Lockout/Tagout
4.0	Response Procedures	5.7	Hazard Communication
	4.1 Evacuation Routes and Procedures	5.8	Spill Containment and Reporting
	4.2 Accidents Involving Serious Injury and/or Death	5.9	First Aid and Medical Response
	4.3 Fire	5.10	Respiratory Protection
	4.4 Hazardous Waste or Chemical Spills	5.11	Personal Protective Equipment
	4.5 Earthquake	5.12	Sanitation
	4.6 Bomb Threat	5.13	Work Site Inspection

Table 7.7-9 Operations Personal Protective Equipment Program Example Outline 8 CCR 3401-3411	
1.0	Introduction
1.1	Purpose
1.2	Scope
2.0	Responsibilities
2.1	Management
2.2	Safety Department
2.2	Employees
3.0	Personal Protective Equipment
3.1	Eyes and Face
3.2	Head and Ears
3.3	Respiratory System
3.4	Trunk and Full Body
3.5	Fall Protection
3.6	Hand and Arms
4.0	Equipment Maintenance
5.0	Training
6.0	Program Review
7.0	Recordkeeping

Table 7.7-10 Construction Safety Fire Protection and Prevention Plan Example Outline 8 CCR 1920	
1.0	Introduction
1.1	Purpose
1.2	Scope
2.0	Responsibilities
2.1	Management
2.2	Site Safety Officer
2.2	Employees
3.0	Plan Implementation
3.1	Housekeeping
3.2	Maintenance
4.0	Types of Hazards
4.1	Fuel Storage and Handling
4.2	Hazardous Materials
4.3	Hot Work
4.4	Flammable and Combustible Materials
4.5	Electrical
5.0	Site Inspections
6.0	Training
7.0	Program Review
8.0	Recordkeeping

Table 7.7-11 Operations Fire Prevention Plan Example Outline 8 CCR 3221	
1.0	Introduction
1.1	Purpose
1.2	Scope
2.0	Responsibilities
2.1	Management
2.2	Safety Department
2.2	Employees
3.0	Plan Implementation
3.1	Housekeeping
3.2	Maintenance
4.0	Types of Hazards
4.1	Fuel Storage and Handling
4.2	Hazardous Materials
4.3	Hot Work
4.4	Flammable and Combustible Materials
4.5	Electrical
5.0	Site Inspections
6.0	Training
7.0	Program Review
8.0	Recordkeeping

Table 7.7-12 Laws, Ordinances, Regulations, and Standards (Page 1 of 6)			
Administering Agency	Applicable LORS	Requirement/Compliance	AFC Section
California Division of Occupational Safety and Health California Occupational Safety and Health Act 1973	Title 8, CCR	The Act establishes the Cal/OSHA and establishes minimum safety and health standards for work operations occurring in the state.	8.7
	8 CCR, Section 339	Requires listing of hazardous chemicals relating to the Hazardous Substance Information and Training Act.	8.7.3.1, 8.7.3.2, 8.7.4.1, 8.7.4.2
	8 CCR, Section 450 et seq. – 560 et seq.	Establishes safety orders for pressurized vessels including: air tanks, anhydrous ammonia, and general safe work practices.	8.7.3.2
	8 CCR, Section 750 et seq.	Establishes safety orders of work with high pressure steam.	8.7.3.2
	8 CCR, Construction Safety Orders (Sections 1500 et seq. – 1938 et seq.)	Establishes safety orders for construction work.	8.7.3.1
	8 CCR, Sections 1508 et seq. – 1527 et seq.	Requirements for IIPP, PPE, and general site safety.	8.7.3.1
	8 CCR, Sections 1528 et seq. – 1537 et seq.	Requirements for controlling exposures to hazardous air contaminants.	8.7.3.1
	8 CCR, Sections 1539 et seq. – 1547 et seq.	Requirements for excavations and trenching.	8.7.3.1
	8 CCR, Sections 1590 et seq. – 1596 et seq.	Requirements for earth moving and haulage.	8.7.3.1
	8 CCR, Sections 1597 et seq. – 1599 et seq.	Requirements for vehicles, traffic control, flaggers, barricades, and warning signs.	8.7.3.1
	8 CCR, Sections 1604 et seq. – 1605 et seq.	Requirements for construction hoists.	8.7.3.1
	8 CCR, Sections 1620 et seq. – 1635 et seq.	Requirements for railings, ramps, stairs, access and egress, openings in floors, roofs and walls, and temporary floors.	8.7.3.1

Table 7.7-12 Laws, Ordinances, Regulations, and Standards (Page 2 of 6)			
Administering Agency	Applicable LORS	Requirement/Compliance	AFC Section
California Division of Occupational Safety and Health California Occupational Safety and Health Act 1973 (Continued)	8 CCR, Sections 1635 et seq. – 1667 et seq.	Requirements for scaffolding.	8.7.3.1 and 8.7.3.2
	8 CCR, Sections 1669 et seq. – 1678 et seq.	Requirements for safety belts, nets, and ladders.	8.7.3.1 and 8.7.3.2
	8 CCR, Sections 1680 et seq. – 1708 et seq.	Requirements for saws, powder-actuated tools, miscellaneous tools and equipment.	8.7.3.1 and 8.7.3.2
	8 CCR, Sections 1709 et seq. – 1722 et seq.	Requirements for steel reinforcing, concrete pouring, and structural steel erection operations.	8.7.3.1
	8 CCR, Sections 1760 et seq.	Electrical requirements for construction work.	8.7.3.1
	8 CCR, Sections 1920 et seq. – 1938 et seq.	Requirements for construction-related fire protection and prevention.	8.7.5.1
	8 CCR, Electrical Safety Orders (Sections 2299 et seq. – 2974 et seq.)	Establishes safety orders for installation of low and high voltage electrical systems.	8.7.3.1
	8 CCR, General Industry Safety Orders (Sections 3200 et seq. – 6184 et seq.)	Establishes safety orders for general industry work, including operations and maintenance.	8.7.3.2
	8 CCR, Sections 3200 et seq. – 3583 et seq.	Requirements for IIPP, PPE, and general site safety.	8.7.3.2
	8 CCR, Sections 3620 et seq. – 3920 et seq.	Requirements for mobile equipment operation.	8.7.3.2
8 CCR, Sections 3940 et seq. – 4647 et seq.	Requirements for power transmission equipment, rotating equipment, moving parts points of operation, etc.	8.7.3.2	

Table 7.7-12 Laws, Ordinances, Regulations, and Standards (Page 3 of 6)			
Administering Agency	Applicable LORS	Requirement/Compliance	AFC Section
California Division of Occupational Safety and Health California Occupational Safety and Health Act 1973 (Continued)	8 CCR, Sections 4794 et seq. – 4884 et seq.	Requirements for compressed gases and gas systems for cutting and welding.	8.7.3.2
	8 CCR, Sections 4850 et seq. – 4853 et seq.	Requirements for electric welding.	8.7.3.2
	8 CCR, Sections 4884 et seq. – 5049 et seq.	Requirements for cranes and other hoisting equipment.	8.7.3.2
	8 CCR, Sections 5094 et seq. – 5100 et seq.	Requirements for control of excessive noise exposure and ergonomic hazards.	8.7.3.2
	8 CCR, Sections 5139 et seq. – 5223 et seq.	Requirements for the control of hazardous substances, including Hazard Communication program requirements.	8.7.3.2
	8 CCR, Sections 5615 et seq. – 5629 et seq.	Requirements for the control of hazards from flammable liquids, gases, and vapors.	8.7.3.2
	8 CCR, Sections 6150 et seq. – 6184 et seq.	Requirements for fire protection and prevention.	8.7.5.2
	8 CCR, Part 6	Provides health and safety requirements for working with tanks and boilers.	8.7.3.2
	29 CFR 1926	Contains federal health and safety regulations pertaining to construction activities.	8.7.3.1
	29 CFR 1910	Contains federal health and safety regulations pertaining to general industry.	8.7.3.2
Palm Springs Fire Department	Section 25500 et seq. (LaFollette Bill)	Requires that every new or modified facility that handles, treats, stores, or disposes of more than the threshold quantity of any of the listed acutely hazardous materials prepare and maintain a Risk Management Plan.	8.12, 8.7.3.1, and 8.7.3.2

Table 7.7-12 Laws, Ordinances, Regulations, and Standards (Page 4 of 6)			
Administering Agency	Applicable LORS	Requirement/Compliance	AFC Section
Palm Springs Fire Department (Continued)	Section 25500 et seq. – 25541 et seq.	Requires the preparation of a Hazardous Material Business Plan that details emergency response plans for a hazardous materials emergency at the facility.	8.12
	UFC, Article 80	Requires the prevention, control, and mitigation of dangerous conditions related to storage, dispensing, use, and handling of hazardous materials and information needed by emergency response personnel.	8.12
	NFPA 10: Portable Fire Extinguishers	Requirements for the selection, placement, inspection, maintenance, and employee training for portable fire extinguishers.	8.74 and 8.75
	NFPA 12: Carbon Dioxide Fire Extinguishing Systems	Requirements for the installation and use of carbon dioxide extinguishing systems.	2.2.11 and 8.7.5
	NFPA 13 and 13A: Sprinkler Systems	Guidelines for selection, installation, maintenance, and testing of fire sprinkler systems.	2.2.11 and 8.7.5
	NFPA 14: Standpipe and Hose Systems	Guidelines for the selection and installation of standpipe and hose fire protection systems.	2.2.11 and 8.7.5
	NFPA 15: Water Spray Fixed Systems	Guidelines for selection and installation of fixed water spray systems.	2.2.11 and 8.7.5
	NFPA 22: Water Tanks and Private Fire Protection	Requirements for water tanks that are used for private fire protection.	2.2.11 and 8.7.5
	NFPA 24: Installation of Private Fire Service Mains and their Appurtenances	Requirements for installation of private fire service mains and appurtenances.	2.2.11 and 8.7.5
	NFPA 26: Supervision of Valves Controlling Water Supplies	Provides guidance for installation and supervision of valves used to control water supplies.	2.2.11 and 8.7.5
	NFPA 30: Flammable and Combustible Liquids	Requirements for storage, transfer, and use of flammable and combustible liquids.	8.7.3.1 and 8.7.3.2

Table 7.7-12 Laws, Ordinances, Regulations, and Standards (Page 5 of 6)			
Administering Agency	Applicable LORS	Requirement/Compliance	AFC Section
Palm Springs Fire Department (Continued)	NFPA 37: Stationary Combustion Engines and Gas Turbines	Provides fire protection requirements for the installation and use of combustion engines and gas turbines.	2.2.11 and 8.7.5
	NFPA 50A: Gaseous Hydrogen Systems	Provides fire protection requirements for hydrogen systems.	8.7.5
	NFPA 54: National Fuel Gas Code	Provides fire protection requirements for the use of fuel gas.	2.2.11 and 8.7.5
	NFPA 70, 70B and 70E: National Electric Code	Guidance on the safe selection and work practices associated with the design, installation, construction, and maintenance of electrical systems.	8.7.3.1 and 8.7.3.2
	NFPA 71: Installation, Maintenance and use of Central Station Signaling Systems	Provides requirements for the installation, maintenance, and use of central station signaling systems.	2.2.11 and 8.7.5
	NFPA 72A, 72E and 72F: Local Protective Signaling System, Automatic Fire Detection System, Emergency Voice/Alarm Communication System	Provides requirements for the design, installation, use and maintenance of local protective signaling systems, automatic fire detection systems and emergency communication systems.	2.2.11 and 8.7.5
	NFPA 78: Lightning Protection Code	Provides requirements for lightning protection.	8.7.3.1
	NFPA 80: Fire Doors and Windows	Provides requirements for fire doors and windows.	8.7.3.1
	NFPA 90A: Installation of Air Conditioning and Ventilation Systems	Provides guidance for the installation of air conditioning and ventilation systems.	8.7.3.1
	NFPA 101: Life Safety, Fire in Buildings and Structures	Requirements for the design and construction of means of egress from structures.	8.7.3.1
NFPA 291: Fire Flow Testing and Marking of Hydrants	Requirements for flow testing and marking of fire hydrants.	8.7.3.2	

Table 7.7-12 Laws, Ordinances, Regulations, and Standards (Page 6 of 6)			
Administering Agency	Applicable LORS	Requirement/Compliance	AFC Section
Palm Springs Fire Department (Continued)	NFPA 1962: Care, Maintenance and Use of Fire Hoses	Requirements for the care, use and maintenance of fire hoses, connections, and nozzles.	8.7.3.2
Cal/OSHA	ANSI/ASME Boiler and Pressure Vessel Code	Provides specifications and requirements for boilers and pressure vessels.	8.7.3
	ANSI, B31.2, Fuel Gas Piping	Provides specifications and requirements for fuel gas piping.	8.7.3.1
<p>Note:</p> <p>^a Cal/OSHA has primary jurisdiction for worker health and safety in California. These regulations are provided for reference purposes and apply as referenced in Cal/OSHA regulations.</p> <p>ANSI/ASME = American National Standards Institute/American Society for Mechanical Engineers Cal/OSHA = California Occupational Safety and Health Commission CCR = California Code of Regulations CFR = Code of Federal Regulations IIPP = Injury, illness, prevention program NFPA = National Fire Protection Association PPE = personal protective equipment UFC = Uniform Fire Code</p>			