DOCKETED	
Docket Number:	26-OPT-01
Project Title:	Vaca Dixon Power Center Project
TN #:	273175
Document Title:	Revised Section 5-10 Worker Safety_VDPC
Description:	Updated section, incorporating responses included in Data Request Response Set #2.
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Organization:	Rincon Consultants, Inc.
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Submission Date:	10/21/2026 2:55:34 PM
Docketed Date:	10/21/2026

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5.10 Worker Safety

This section summarizes the worker health and safety issues that may be encountered during construction and operation of the Vaca Dixon Power Center (VDPC) Project (Project). This section addresses California Energy Commission (CEC) requirements for Opt-In Applications, as specified in Title 20, California Code of Regulations, Section 1704, Appendix B for worker safety. Section 5.10.1 contains a brief description of the work environment and setting. Section 5.10.2 describes the analyses conducted to identify hazards for health and safety programs, as well as the safety compliance and training programs that would be established during Project construction and operation (including maintenance). Section 5.10.3 presents laws, ordinances, regulations, and standards (LORS) applicable to worker safety. Section 5.10.4 identifies regulatory agency contacts. Section 5.10.5 describes permits required for the Project related to worker safety. Section 5.10.6 provides references for this section.

5.10.1 Environmental Setting

Solano County, including the City of Vacaville, has a mild climate, with external working summer conditions being long, hot, and dry, and winter conditions being mild with light rain. Typically, most seasonal precipitation occurs between October and April. Over the course of the year, temperatures typically range from 37 degrees Fahrenheit (°F) to 95°F and are rarely below 32°F or above 100°F; extreme heat and cold conditions are uncommon (National Ocean and Atmospheric Administration [NOAA] 2024).

5.10.2 Hazards Analysis

5.10.2.1 Methodology

Project construction, operations and maintenance (O&M), and decommissioning activities have the potential to expose workers to safety hazards. A hazard analysis was conducted to determine impacts to worker health and safety for these Project activities. The analysis identifies the hazards anticipated during construction, O&M, and decommissioning activities, and indicates which safety programs should be developed and implemented to avoid, mitigate, and/or appropriately manage such hazards.

5.10.2.2 Impact Evaluation Criteria

The California Environmental Quality Act (CEQA) Environmental Checklist (Appendix G of the CEQA Guidelines) does not include criteria that specifically address health and safety related impacts to Project construction and operation personnel. CEQA Environmental Checklist impact evaluation criteria related to workers residing in the Project vicinity are included under Section 5.3, *Noise,* and Section 5.9, *Hazardous Materials Handling.* The following section provides a hazard analysis of construction and O&M activities to address CEC requirements for Opt-In Applications, as specified in Title 20, California Code of Regulations, Section 1704, Appendix B for worker safety.

5.10.2.3 Hazard Analysis

Table 5.10-1 shows the results of the hazards analysis for Project construction activities and Table 5.10-2 shows the results for Project O&M activities. Outlines for the programs and plans described in Table 5.10-1 and Table 5.10-2 are included in Section 5.10.2.4.

Table 5.10-1 Project Construction Hazard Analysis

Activity	Hazard	Control Program
Motor vehicle and heavy equipment use	• Personnel injury and/or property damage from collisions between people, motor vehicles, and/or equipment	• Construction Injury and Illness Prevention Program (Construction IIPP) • Construction Personal Protective Equipment Program (Construction PPE Program)
Forklift operation	• Personnel injury and/or property damage from collisions between people, forklifts, and/or equipment	• Construction IIPP • Construction PPE Program
Trench and excavation	• Personnel injury and/or property damage from the collapse of trenches and excavations • Exposure to fumes or vapors that have collected in the trench/excavation	• Construction IIPP • Construction PPE Program
Working at elevated locations	• Personnel injury and/or property damage resulting from falls from elevated areas • Personnel injury resulting from overhead hazards	• Construction IIPP • Construction PPE Program
Crane operation	• Personnel injury and/or property damage from falling loads • Injuries and property damage from contact with cranes or derricks	• Construction IIPP • Construction PPE Program
Working with flammable and combustible liquids	▪ Personnel injury and/or property damage resulting from fire/spills	• Construction IIPP • Construction PPE Program • Construction Fire Protection and Prevention Plan • Construction Hazardous Materials Business Plan (HMBP) • Construction Spill Prevention Control and Countermeasure (SPCC) Plan
Hot work (including cutting and welding)	• Personnel injury and/or property damage from fire or exposure to hot materials • Exposure to fumes during cutting and welding • Personnel injury resulting from ocular exposure to ultraviolet and infrared radiation during cutting and welding	• Construction IIPP • Construction PPE Program • Construction Fire Protection and Prevention Plan
Inspection and maintenance of temporary systems	• Personnel injury and/or property damage from contact with hazardous energy sources (electrical, thermal, and mechanical)	• Construction IIPP • Construction PPE Program

Activity	Hazard	Control Program
Working on electrical equipment	• Personnel injury resulting from contact with live electricity and energized equipment • Fire hazard resulting from contact with live electricity and energized equipment	• Construction IIPP • Construction PPE Program • Construction Fire Protection and Prevention Plan
Exposure to hazardous waste	• Personnel exposure to contaminated soil, groundwater, or debris during construction	• Construction IIPP • Construction PPE Program • Construction HMBP
Confined space entry	• Personnel injury from physical and chemical hazards during activities conducted within a confined space	• Construction IIPP • Construction PPE Program
General construction activities	• Personnel injury from hand and portable power tools • Personnel injury/property damage from inadequate walking and work surfaces and/or poor housekeeping • Personnel exposure to occupational noise • Personnel injury from improper lifting, carrying materials and equipment, and poor ergonomics • Personnel exposure to hazardous gases, vapors, dust, and fumes • Personnel exposure to various hazards • Heat and cold stress • Personnel injury and property damage from unsafe driving	• Construction IIPP • Construction PPE Program
Working near water	• Personnel injury when working near on-site stormwater retention ponds or wastewater treatment systems	• Construction IIPP
Working outdoors/ remote	• Personnel injury resulting from working alone and/or in a remote area. • Personnel injury and/or property damage resulting from lightning strikes during a storm • Personnel injury related to heat illness and exposure.	• Construction IIPP
Biological hazards	• Personnel injury resulting from exposure to flora/fauna • Exposure to COVID-19 or other pathogens • Exposure to *Coccidioides* fungi resulting in Valley Fever.	• Construction IIPP • Construction PPE Program
Fire hazards	• Personnel injury and/or property damage resulting from fire hazards. • Personnel exposure to poor air quality related to fire smoke.	• Construction IIPP • Construction PPE Program • Construction Fire Protection and Prevention Plan

Source: California Code of Regulations (CCR), Occupational Safety and Health Administration (OSHA) Job Hazard Analysis

Table 5.10-2 Operations and Maintenance Hazard Analysis

Activity	Hazard	Control Program
Motor vehicle and heavy equipment use	• Personnel injury and/or property damage from collisions between people, motor vehicles, and/or equipment.	• O&M IIPP • O&M PPE Program
Forklift operation	• Personnel injury and/or property damage from collisions between people, forklifts, and/or equipment.	• O&M IIPP • O&M PPE Program
Working at elevated locations	• Personnel injury and/or property damage resulting from falls from elevated areas. • Personnel injury resulting from overhead hazards.	• O&M IIPP • O&M PPE Program
Crane operation	• Property damage from falling loads. • Personnel injuries from falling loads. • Injuries and property damage from contact with cranes or derricks.	• O&M IIPP • O&M PPE Program
Working with flammable and combustible liquids	• Personnel injury and/or property damage resulting from fire/spills.	• O&M IIPP • O&M PPE Program • O&M Fire Protection and Prevention Plan • Emergency Action Plan • O&M HMBP • O&M SPCC
Working with hazardous materials	• Personnel injury (chemical burns, inhalation, digestion, absorption) resulting from exposure to hazardous chemicals.	• O&M IIPP • O&M PPE Program • O&M HMBP • Emergency Action Plan
Hot work (including cutting and welding)	• Personnel injury and/or property damage resulting from fire. • Personnel exposure to fumes during cutting and welding. • Ocular exposure to ultraviolet and infrared radiation during cutting and welding.	• O&M IIPP • O&M PPE Program • O&M Fire Protection and Prevention Plan
Troubleshooting and maintenance of Project systems and general operational activities	• Personnel injury and/or property damage from contact with hazardous energy sources (e.g., electrical, thermal, and mechanical).	• O&M IIPP • O&M PPE Program • O&M HMBP
Working on electrical equipment	• Personnel injury resulting from contact with live electricity and energized equipment. • Fire hazard resulting from contact with live electricity and energized equipment.	• O&M IIPP • O&M PPE Program

Activity	Hazard	Control Program
Confined space entry	• Personnel injury from physical and chemical hazards during activities conducted within a confined space.	• O&M IIPP • O&M PPE Program
General Project operations	• Personnel injury and property damage from unsafe driving. • Personnel overexposure to hazardous gases, vapors, dust, and fumes. • Personnel injury from hand and portable power tools. • Personnel injury/property damage from inadequate walking and work surfaces and/or poor housekeeping. • Personnel exposure to occupational noise. • Personnel injury from improper lifting and carrying materials and equipment. • Personnel exposure to hazardous gases, vapors, dust, and fumes. • Heat and cold stress.	• O&M IIPP • O&M PPE Program
Working near water	• Personnel injury when working near on-site stormwater retention ponds or wastewater treatment systems.	• O&M IIPP
Working outdoors/ remote	• Personnel injury resulting from working alone and/or in a remote area. • Personnel injury and/or property damage resulting from lightning strikes during a storm. • Personnel injury related to heat illness and exposure.	• O&M IIPP • O&M PPE Program
Biological hazards	• Personnel injury resulting from exposure to flora/fauna. • Exposure to COVID-19 or other pathogens. • Exposure to *Coccidioides* fungi resulting in Valley Fever.	• O&M IIPP • O&M PPE Program • Emergency Action Plan
Fire Hazards	• Personnel injury and/or property damage resulting from fire hazards. • Personnel exposure to poor air quality related to fire smoke.	• O&M IIPP • O&M PPE Program • Emergency Action Plan • O&M Fire Protection and Prevention Plan
Battery energy storage systems	• Personnel injury and/or property damage from fire related to failure of battery energy storage system components.	• O&M IIPP • O&M PPE Program • O&M Fire Protection and Prevention Plan • Emergency Action Plan • O&M HMBP

Source: CCR, OSHA Job Hazard Analysis

5.10.2.4 Training and Safety Programs

Health and safety programs identified in Table 5.10-1 and Table 5.10-2 would be developed to mitigate potential safety hazards from Project construction and O&M activities, and to comply with applicable regulations. Each program and plan detailed in Table 5.10-1 and Table 5.10-2 would contain job-specific training requirements that would be translated into trainings for Project personnel, as applicable. For example, all Project O&M personnel would receive training in evacuation procedures under the Emergency Action Plan, but only those personnel working with flammables would receive training under the Fire Protection and Prevention Program.

The following subsections contain information on the anticipated content of the respective health and safety programs.

Construction Health and Safety Programs

The following construction health and safety programs would be developed and implemented during Project construction. An outline of the key items to be included in each construction health and safety program is included below.

Construction Injury and Illness Prevention Plan

In accordance with 8 CCR, § 1509, an Injury and Illness Prevention Plan (IIPP) would be developed, implemented, and maintained during Project construction. The construction IIPP would include the following elements:

- Identification of the various parties and personnel responsible for implementing the program during construction activities
- Definition of a framework for Project personnel compliance with Project-specific and general safety and health work practices, including training and retraining programs, disciplinary actions, or other such means to promote Project personnel compliance with such practices
- Establishment of a chain of command for communicating in a clear and concise manner for all affected personnel, including provisions designed to encourage Project personnel to communicate hazards at the Project Site
- Outline of procedures for identifying and evaluating workplace hazards, including but not limited to the following:
  - Physical Hazards
    - Use of motor vehicles, heavy equipment, forklifts, and cranes
    - Hot work and work with electrical equipment
    - Working outdoors, in remote locations, or near water
    - Trenching, excavation, and confined space entry
    - Working at elevation and overhead hazards
  - Chemical Hazards
    - Handling hazardous waste, flammable and/or combustible liquids, gaseous materials, explosives, and batteries
  - Biological Hazards
  - General construction hazards, including those encountered during inspections and/or maintenance activities
- Outline of procedures to investigate occupational injury or illness

- Outline of procedures for correcting unsafe or unhealthy conditions, work practices and procedures, and an emergency response protocol, including:
  - Procedures for reporting fires and other emergencies
  - Evacuation procedures and emergency escape route assignments, including evacuation areas and/or muster locations
  - Procedures for Project personnel who remain to operate critical plant operations before they evacuate
  - Establishment of a means for accounting for all Project personnel after an emergency evacuation
  - Rescue and medical duties performed by Project personnel
  - Identification of key person to be contacted in the event of evacuation or other emergencies
  - Description of alarm systems that would notify Project personnel to evacuate or take other actions
  - Establishment of the site of an alternative communications center to be used in the event of a fire or explosion
  - Identification of a secure location for storage of original or duplicate copies of important records
- Identification of training and instruction required under the Construction IIPP, including framework for who receives training and when training is implemented
- Outline of procedures to allow Project personnel access to the program
- Establishment of procedures for recordkeeping and documentation

Construction Fire Protection and Prevention Program

In accordance with 8 CCR, § 1920, a Fire Protection and Prevention Program would be developed and implemented during Project construction. The Construction Fire Protection and Prevention Program would address the following elements:

- Applicable standards and publications
- A map showing the Project Site, including layout, ingress, egress, drainage and grading, potential ignition sources during various phases of construction, and evacuation areas and/or muster locations
- Fire protections that would be implemented during construction activities, including water systems, gaseous agent systems, and fire extinguishers
- Detection and alarm systems that would be implemented during construction activities
- Major fire hazards, including but not limited to:
  - Chemical fire hazards such as hydrogen, oxygen, nitrogen, and diesel
  - Physical fire hazards such as electrical equipment, heavy equipment and motor vehicles, and wildfire
- Procedures to control accumulation of flammable and combustible waste materials
- Procedures for regular maintenance of safeguards installed on heat-producing equipment to prevent or control sources of ignition or fires
- Project personnel responsible for the control of fuel source hazards

Construction PPE Program

In accordance with 8 CCR, § 1514 – 1522, a PPE Program would be developed and implemented during Project construction. The Construction PPE Program would address the following elements:

- Physical and health hazards specific to Project construction
- Appropriate and adequate PPE for Project personnel for the specific work to be conducted at the Project
- Training on the use, inspection, storage, cleaning, and limitations of the PPE

- Training on the maintenance of PPE, including replacing worn or damaged PPE
- Establishment of periodic reviews to update and evaluate the effectiveness of the PPE Program

Construction Hazardous Materials Business Plan

A Construction HMBP would be prepared for submittal to Solano County Department of Resource Management, Environmental Health Services Division Certified Unified Program Agency (CUPA)/Hazardous Materials Compliance Program in accordance with the conditions of the CUPA. The HMBP would contain detailed information pertaining to the inventory of hazardous materials at the Project Site, emergency response plans and procedures to be followed in the event of a reportable release during construction activities, and training requirements. This plan is detailed in Section 5.9, *Hazardous Materials Handling*.

Construction Spill Prevention, Control, and Countermeasure Plan

In accordance with Section 311 of the Clean Water Act (CWA), an SPCC plan is required if oil is stored in a single aboveground storage tank with capacity greater than 660 gallons or if the total amount of petroleum storage is greater than 1,320 gallons. An SPCC would be prepared to describe the measures to be implemented to prevent oil discharges from occurring during construction activities. This plan is detailed in Section 5.9, *Hazardous Materials Handling*.

O&M Health and Safety Programs

Upon completion of construction and commencement of O&M activities at Project facilities, the construction health and safety programs would transition into an operation-oriented program reflecting the hazards and controls necessary during O&M activities. An outline of the key items to be included in each operational health and safety program is included below.

O&M Injury and Illness Prevention Plan

In accordance with 8 CCR, § 3203, an IIPP would be developed, implemented, and maintained during Project O&M activities. The O&M IIPP would address the following elements:

- Various parties and personnel responsible for implementing the program during O&M activities
- Framework for Project personnel compliance with Project-specific and general safe and healthy work practices, including training and retraining programs, disciplinary actions, or other such means to promote Project personnel compliance with such practices
- Establishment of a chain of command for communicating in a clear and concise manner for all affected personnel, including provisions designed to encourage Project personnel to communicate regarding hazards at the Project Site
- Procedures for identifying and evaluating workplace hazards, including but not limited to the following:
  - Physical Hazards
    - Use of motor vehicles, heavy equipment, forklifts, and cranes
    - Hot work and work with electrical equipment
    - Working outdoors, in remote locations, or near water
    - Trenching, excavation, and confined space entry
    - Working at elevation and overhead hazards
  - Chemical Hazards
    - Handling hazardous waste, flammable and/or combustible liquids, gaseous materials, explosives, and batteries
  - Biological Hazards

- Procedures to investigate occupational injury or illness
- Procedures for correcting unsafe or unhealthy conditions, work practices and procedures, and an emergency response protocol, including:
  - Procedures for reporting fires and other emergencies
  - Evacuation procedures and emergency escape route assignments, including evacuation areas and/or muster locations
  - Procedures for Project personnel who remain to operate critical plant operations before they evacuate
  - Establishment of a means for accounting for all Project personnel after an emergency evacuation
  - Rescue and medical duties performed by Project personnel
  - Identification of key person to be contacted in the event of evacuation or other emergencies
  - Description of alarm systems that would notify Project personnel to evacuate or take other actions
  - Establishment of the site of an alternative communications center to be used in the event of a fire or explosion
  - Identification of a secure location for storage of original or duplicate copies of important records
- Training and instruction required under the O&M IIPP, including framework for who receives training and when training is implemented
- Procedures to allow Project personnel access to the program
- Procedures for recordkeeping and documentation

O&M Fire Protection and Prevention Program

In accordance with 8 CCR, § 1920, a Fire Protection and Prevention Program would be developed and implemented during Project O&M activities. The O&M Fire Protection and Prevention Program would address the following elements:

- Applicable standards and publications
- A map showing the Project Site, facilities, ingress, egress, potential ignition sources, and evacuation areas and/or muster locations
- Fire protections that would be implemented during O&M activities, including water systems, gaseous agent systems, and fire extinguishers
- Detection and alarm systems that would be implemented during O&M activities
- Major fire hazards, including but not limited to:
  - Chemical fire hazards such as hydrogen, oxygen, nitrogen, and diesel
  - Physical fire hazards such as electrical equipment, heavy equipment and motor vehicles, and wildfire
  - Failure of BESS batteries
- Procedures to control accumulation of flammable and combustible waste materials
- Procedures for regular maintenance of safeguards installed on heat-producing equipment to prevent or control sources of ignition or fires
- Project personnel responsible for the control of fuel source hazards
- Procedures to respond to wildland and grass fires within the Project vicinity or Project Site
- Procedures to respond to fires within the Project facility

O&M PPE Program

A PPE Program would be developed and implemented during Project O&M activities. The O&M PPE Program would address the following elements:

- Physical and health hazards specific to the workplace
- Appropriate and adequate PPE for Project personnel for the specific O&M activities to be conducted at the Project Site
- Training on the use, inspection, storage, cleaning, and limitations of the PPE
- Training on the maintenance of PPE, including replacing worn or damaged PPE
- Establishment of periodic reviews to update and evaluate the effectiveness of the PPE Program

O&M Emergency Action Plan

In accordance with 8 CCR, § 3220, an Emergency Action Plan would be developed and implemented during Project O&M activities. The O&M Emergency Action Plan would address the following elements:

- Procedures for reporting fires and other emergencies
- Procedures for emergency evacuation, including evacuation type and exit routes
- Procedures for Project personnel who remain to operate critical plant operations before they evacuate
- A means for accounting for all Project personnel after an emergency evacuation
- Rescue and medical duties if performed by Project personnel
- Key persons to be contacted in the event of evacuation or other emergencies
- Alarm systems intended to notify Project personnel to evacuate or take other actions
- Location of an alternative communications center to be used in the event of a fire or explosion
- Secure location for storage of original or duplicate copies of important records

O&M Hazardous Materials Business Plan

An HMBP would be prepared for submittal to Solano County Department of Resource Management, Environmental Health Services Division Certified Unified Program Agency (CUPA)/Hazardous Materials Compliance Program in accordance with the conditions of the CUPA. The HMBP would contain detailed information pertaining to the inventory of hazardous materials at the Project Site, emergency response plans and procedures to be followed in the event of a reportable release during construction activities, and training requirements. This plan is detailed in Section 5.9, *Hazardous Materials Handling.*

O&M Spill Prevention, Control, and Countermeasure Plan

In accordance with Section 311 of the CWA, an SPCC plan is required if oil is stored in a single aboveground storage tank with capacity greater than 660 gallons or if the total amount of petroleum storage is greater than 1,320 gallons. An SPCC would be prepared describing the measures to be implemented to prevent oil discharges from occurring during Project O&M activities. This plan is detailed in Section 5.9, *Hazardous Materials Handling*.

Safety Training

Comprehensive safety training programs for Project construction and O&M activities would be required for Project personnel. Each of the safety procedures developed to control and mitigate potential site hazards would require training through a variety of methods, consistent with the requirements of California Division of Occupational Safety and Health (Cal/OSHA) standards, the complexity of the topic, the characteristics of the workforce, and the degree of risk associated with each of the identified hazards. Table 5.10-3 summarizes the safety training programs that would be provided to Project construction personnel.

Safe Work Permit Program

The Applicants' Safe Work Permit Program would establish a formal process to identify, evaluate, and control hazards associated with non-routine or high-risk construction activities. The program ensures that all work is planned, authorized, and executed safely through a permit system that documents required safety precautions and responsible personnel.

Before work begins, supervisors and workers review the scope of work, potential hazards, and applicable controls such as lockout/tagout, confined space entry, hot work, excavation, or working at heights. Permits are issued only after verification that all safety measures, training, and protective equipment are in place.

This program promotes clear communication between construction teams, site management, and safety staff, preventing incidents and ensuring compliance with regulatory and company safety standards. Permits are displayed at the work site and remain valid only for the duration and conditions specified.

Table 5.10-3 Project Construction Training Program

Training Course	Target Project Personnel
Injury and Illness Prevention Training	All
PPE Training	All
Fire Protection and Prevention Training	Project personnel responsible for the handling and storage of flammable or combustible liquids or gases, operating heavy machinery, or performing hot work
HMBP	Project personnel responsible for the handling, storage, and disposal of hazardous materials

Source: Department of Industrial Relations, OSHA 2020

Table 5.10-4 summarizes the safety training programs that would be provided to Project O&M personnel.

Table 5.10-4 Project O&M Training Program

Training Course	Target Project Personnel
Injury and Illness Prevention Training	All
PPE Training	All
Fire Protection and Prevention Training	Project personnel responsible for the handling and storage of flammable or combustible liquids or gases, performing hot work, operating heavy machinery, or maintaining battery energy storage systems
Emergency Action Plan	All
Hazardous Waste Generator Training	Project personnel responsible for the handling, storage, and disposal of hazardous materials

Source: Department of Industrial Relations, OSHA 2020

BESS Safety and Fire Suppression

Chapter 2, Project Description, describes the Project's battery energy storage and fire suppression systems. The Project would be designed in conformance with the National Fire Protection Association (NFPA) Standard 855, *Standard for Installation of Stationary Energy Storage Systems*, California Fire Code, and City of Vacaville Fire Department (VFD) minimum separation and setback distances. Fire detection measures are intrinsically incorporated in the Project design in accordance with NFPA safety standards. Should a thermal event occur, the BESS units are designed and certified so that fire would not propagate from one cabinet to the neighboring cabinet. A hazard mitigation analysis developed by the BESS

manufacturer would be provided to the local authorities and would comply with California Codes 1207.1.4.1 and 1207.1.4.2; these analyses are included in Appendices U and T. Any exhaust created by a thermal event would be similar to a Class A Fire, which is a fire that consists of ordinary combustibles such as wood, paper, fabric, and plastic. In addition, an electrolyte added to the cells during manufacturing is fully absorbed into the cell material and enclosed within the cell casing which eliminates the risk of material leaking from the cell even if water is applied for fire suppression. Further information is contained in the hazard consequence analysis provided in Appendices V and W.

The Project would also include multiple fire detection systems on-site and within the individual BESS units. The BESS enclosures will have ventilation systems and a robust network of cooling and associated chilling to maintain the modules at a safe operating temperature. Fire suppression systems in the BESS enclosures would include a gaseous fire suppressant designed to flood the entire container in the event of a fire. The enclosure would be equipped with combustible gas detection, early smoke detection, alarms, emergency ventilation, and remote monitoring. Each BESS would also have a minimum of two potential emergency access points. A conceptual layout of the Vaca Dixon 57 MWh BESS and Arges 400 MWh BESS, which shows the locations of the fire suppression elements, including the fire water loop, is provided as Figure 5.10-1.

A Fire Protection and Prevention Plan would be implemented during Project construction and operation. The Applicant intends to coordinate with the local or State Fire Marshal on any proposed firefighting measures as Project design advances.

The VFD provides fire response services to the Project Site (VFD 2025). The closest fire station to the Project Site is City of Vacaville Fire Station 73, located approximately 2.5 miles west at 650 Eubanks Court in the City of Vacaville. Portions of the gen-tie lines will be located in unincorporated Solano County, which falls under the jurisdiction of the Dixon Fire Protection District. The Dixon Fire Department and VFD have a mutual aid agreement in place allowing mutual assistance in the case of a major fire or emergency.

5.10.3 Laws, Ordinances, Regulations, and Standards

The LORS that may apply to the Project related to worker safety are summarized in Table 5.10-5. Table 5.10-5 also provides a summary of the applicable national consensus standards.

Figure 5.10-1 Planned Fire Suppression System for Proposed Project

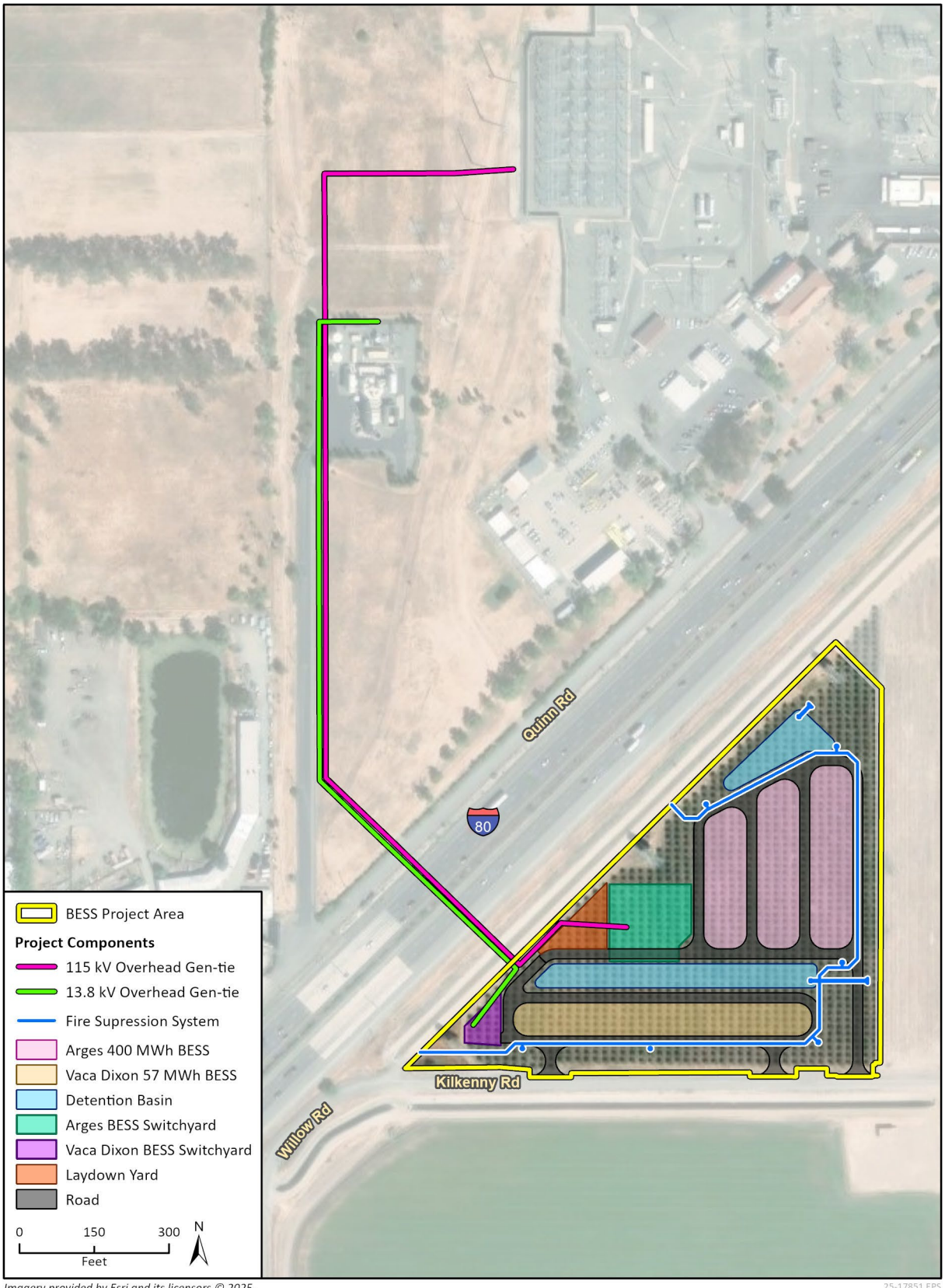

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Fig 2-X Fire Suppression System Plans

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Table 5.10-5 LORS Applicable to Worker Health and Safety

Jurisdiction	LORS	Applicability	Opt-In Application Reference	Project Conformity
Federal	29 CFR Part 1910	Contains the minimum occupational safety and health standards for general industry in the United States	Section 5.10, *Worker Safety*	The Project would implement occupational safety and health protocols during construction, operation, and decommissioning activities in compliance with 29 CFR Part 1910
	29 CFR Part 1926	Contains the minimum occupational safety and health standards for the construction industry in the United States	Section 5.10, *Worker Safety*	The Project would implement occupational safety and health protocols during construction, operation, and decommissioning activities in compliance with 29 CFR Part 1926
	National Institute for Occupational Safety and Health (NIOSH)	Conducts research and makes recommendations for prevention of work-related injury and illness	Section 5.10, *Worker Safety*	The Project would comply with the health and safety requirements set forth by NIOSH
	29 CFR Part 1910	Outlines procedures for employees in the event of an emergency	Section 5.9, *Hazardous Materials Handling* Section 5.10, *Worker Safety*	The Project would comply with the requirements set forth in 29 CFR Part 1910 to prepare an Emergency Action Plan
	National Fire Protection Association (NFPA) 2026 Standard for the Installation of Stationary Energy Storage Systems	Contains standards for fire safety in relation to installation of stationary energy storage systems	Section 5.10, *Worker Safety*	The Project design, construction, and operation will conform with the standards recommended by the NFPA to mitigate the hazards associated with stationary energy storage systems.
State	California HSC § 25500, et seq. And the related regulations of 19 CCR 2620 et seq.	Outlines identified hazardous materials, emergency response procedures for releases of hazardous materials, and training requirements	Section 5.9, *Hazardous Materials Handling* Section 5.10, *Worker Safety* Section 5.11, *Waste Management*	The Project would implement a Hazardous Materials Business Plan to comply with California HSC 25500
	California Occupational Safety and Health Act of 1973	Establishes minimum safety and health standards for construction and general industry operations in California	Section 5.10, *Worker Safety*	The Project would implement occupational safety and health protocols during construction, operation, and decommissioning activities in compliance with the California Occupational Safety and Health Act of 1973
	8 CCR § 339	Requires list of hazardous chemicals relating to the Hazardous Substance Information and Training Act	Section 5.9, *Hazardous Materials Handling* Section 5.11, *Waste Management*	Hazardous chemicals stored at the facility would be reported in accordance with the requirements set forth in 8 CCR § 339
	8 CCR, Construction Safety Orders, § 1500	Establishes safety orders for construction work	Section 5.10, *Worker Safety*	Construction activities would comply with the applicable requirements set forth in 8 CCR § 1500
	8 CCR § 1509	Addresses requirements for construction, accident, and prevention plans	Section 5.10, *Worker Safety*	An IIPP would be prepared and implemented for Project construction activities in compliance with 8 CCR § 1509
	8 CCR § 1528, et seq., and § 3380, et seq.	Requirements for PPE	Section 5.7, *Air Quality* Section 5.9, *Hazardous Materials Handling* Section 5.10, *Worker Safety*	Respiratory protection would be required under circumstances defined in 8 CCR § 1528, et seq., and § 3380, et seq. When required, respiratory protection would comply with 8 CCR § 1528, et seq., and § 3380, et seq.
	8 CCR § 1597, et seq., and § 1590, et seq.	Requirements addressing the hazards associated with traffic accidents and earthmoving	Section 5.4, *Traffic and Transportation*	Vehicle usage during construction, operation, and decommissioning activities associated with the Project would comply with the requirements set forth in 8 CCR § 1597, et seq., and § 1590, et seq.
	8 CCR § 1604, et seq.	Requirements for construction hoist equipment	Section 5.10, *Worker Safety*	The use of personnel hoists during construction and maintenance activities associated with the Project would comply with the requirements set forth in 8 CCR § 1604, et seq.
	8 CCR § 1620, et seq., and § 1723, et seq.	Addresses miscellaneous hazards	Section 5.10, *Worker Safety*	Construction of roofing and railings associated with temporary and permanent structures at the Project Site would comply with the requirements set forth in 8 CCR § 1620, et seq., and § 1723, et seq.
	8 CCR § 1709, et seq.	Requirements for steel reinforcing, concrete pouring, and structural steel erection operations	Section 5.10, *Worker Safety*	Construction of facilities associated with the Project would comply with the requirements set forth in 8 CCR § 1709, et seq.
	8 CCR § 1920, et seq.	Requirements for fire protection systems	Section 5.10, *Worker Safety*	A Fire Protection and Prevention Plan would be prepared for both construction and O&M activities associated with the Project that would comply with the requirements set forth in 8 CCR § 1920, et seq.
	8 CCR, Electrical Safety Orders § 2300, et seq., and § 2320, et seq.	Requirements for addressing low-voltage electrical hazards	Section 5.10, *Worker Safety*	Electrical equipment used during construction, operation, and decommissioning activities would be operated in compliance with the requirements set forth in 8 CCR § 2300, et seq., and § 2320, et seq.

Jurisdiction	LORS	Applicability	Opt-In Application Reference	Project Conformity
	8 CCR § 2395, et seq.	Addresses electrical installation requirements	Section 5.10, *Worker Safety*	Electrical equipment connected by cord and plug used during construction, operation, and decommissioning activities would be operated in compliance with the requirements set forth in 8 CCR § 2395, et seq.
	8 CCR § 2700, et seq.	Addresses high-voltage electrical hazards	Section 5.10, *Worker Safety*	High voltage electrical equipment used during construction, operation, and decommissioning activities would be operated in compliance with the requirements set forth in 8 CCR § 2700, et seq.
	8 CCR, § 5139, et seq.	Requirements for control of hazardous substances	Section 5.7, *Air Quality* Section 5.9, *Hazardous Materials Handling*	Handling of hazardous substances during construction, operation, and decommissioning of the Project would comply with the requirements set forth in 8 CCR § 5139, et seq.
	8 CCR, General Industry Safety Orders § 3200, et seq.	Requirements for control of hazardous substances	Section 5.10, *Worker Safety*	Handling of hazardous substances during construction, operation, and decommissioning of the Project would comply with the requirements set forth in 8 CCR § 3200, et seq.
	8 CCR § 3203, et seq.	Requirements for operational accident prevention programs	Section 5.10, *Worker Safety*	An IIPP would be prepared and implemented for O&M activities associated with the Project in compliance with 8 CCR § 3203
	8 CCR § 3270, et seq.	Requirements for the use of compressed air or gases	Section 5.9, *Hazardous Materials Handling*	The use of compressed air or gases during construction, operation, or decommissioning of the Project would comply with the requirements set forth in 8 CCR § 3270, et seq.
	8 CCR § 3209, et seq.	Requirements for evacuation plans and procedures	Section 5.10, *Worker Safety*	Evacuation procedures associated with Project activities would comply with the requirements set forth in 8 CCR § 3209, et seq.
	8 CCR § 3301, et seq.	Requirements for addressing miscellaneous hazards, including hot pipes, hot surfaces, compressed air systems, relief valves, enclosed areas containing flammable or hazardous materials, rotation equipment, pipelines, and vehicle-loading dock operations	Section 5.9, *Hazardous Materials Handling*	The use of compressed air or gases during construction, operation, or decommissioning of the Project would comply with the requirements set forth in 8 CCR § 3301, et seq.
	8 CCR § 3360, et seq.	Addresses requirements for sanitary conditions	Section 5.10, *Worker Safety*	Access to sanitary facilities would be provided during construction, operation, and decommissioning of the Project and facilities would comply with the requirements set forth in 8 CCR § 3360, et seq.
	8 CCR § 3395, et seq.	Requirements for addressing hazards associated with working in outdoor environments and in high heat	Section 5.10, *Worker Safety*	Heat illness prevention would be addressed in the Construction IIPP, Construction PPE program, O&M IIPP, and O&M PPE Program. The Project would comply with the requirements set forth in 8 CCR § 3395, et seq.
	8 CCR § 3511, et seq., and § 3555, et seq.	Requirements for addressing hazards associated with stationary engines and compressors, as well as portable, pneumatic, and electrically powered tools	Section 5.10, *Worker Safety*	The usage of stationary engines and compressors associated with the Project would comply with the requirements set forth in 8 CCR § 3511, et seq., and § 3555, et seq.
	8 CCR § 3649, et seq., and § 3700, et seq.	Requirements for addressing hazards associated with field vehicles	Section 5.10, *Worker Safety*	The Project would comply with the requirements set forth in 8 CCR § 3649, et seq., and § 3700, et seq.
	8 CCR § 3940, et seq.	Requirements for addressing hazards associated with power transmission, compressed air, and gas equipment	Section 5.10, *Worker Safety*	Power transmission associated with the Project would comply with the requirements set forth in 8 CCR § 3940, et seq.
	8 CCR § 5095, et seq.	Requirements for controlling noise exposure	Section 5.3, *Noise*	Noise exposure would be controlled in compliance with the requirements set forth in 8 CCR § 5095, et seq.
	8 CCR § 5109, et seq.	Requirements for addressing construction accident and prevention programs	Section 5.10, *Worker Safety*	The IIPP prepared for the Project would include provisions related to construction accident and prevention programs and would comply with the requirements set forth in 8 CCR § 5109, et seq.
	8 CCR § 5110, et seq.	Requirements for the implementation of an ergonomics program	Section 5.10, *Worker Safety*	The IIPP prepared for the Project would include provisions related to ergonomics and would comply with the requirements set forth in 8 CCR § 5110, et seq.
	8 CCR § 5139, et seq.	Requirements for employee exposure to dust, fumes, mists, vapors, and gases	Section 5.7, *Air Quality* Section 5.10, *Worker Safety*	The IIPP prepared for the Project would include provisions related to dust, fumes, mists, vapors, and gases and would comply with the requirements set forth in 8 CCR § 5139, et seq.
	8 CCR § 5139, et seq.	Requirements for addressing hazards associated with welding, sandblasting, grinding, and spray-coating	Section 5.10, *Worker Safety*	Welding, sandblasting, grinding, and spray-coating activities associated with the Project would comply with the requirements set forth in 8 CCR § 5139, et seq.
	8 CCR § 5156, et seq.	Requirements for confined space entry	Section 5.10, *Worker Safety*	Confined space entry that would occur in association with the Project would comply with the requirements set forth in 8 CCR § 5156, et seq.
	8 CCR § 5155, et seq.	Requirements for use of respirators and for controlling employee exposure to airborne contaminants	Section 5.10, *Worker Safety*	Employee exposure to airborne contaminants would be minimized through the use of respirators in compliance with the requirements set forth in 8 CCR § 5155, et seq.

Jurisdiction	LORS	Applicability	Opt-In Application Reference	Project Conformity
	8 CCR § 5160, et seq.	Requirements for addressing hot, flammable, poisonous, corrosive, and irritant substances	Section 5.10, *Worker Safety*	Hot, flammable, poisonous, corrosive, and/or irritant substances used during construction, operation, maintenance, or decommissioning activities associated with the Project would comply with the requirements set forth in 8 CCR § 5160, et seq.
	8 CCR § 5184 and § 5185	Requirements for storage battery systems and charging storage batteries	Section 5.10, *Worker Safety*	Storage battery systems associated with the Project would comply with the requirements set forth in 8 CCR § 5184 and § 5185
	8 CCR § 5189, et seq.	Requirements regarding process safety management of acutely hazardous materials	Section 5.10, *Worker Safety*	Training for construction, operation, and maintenance processes would occur under the Construction IIPP, O&M IIPP, and the HMBP.
	8 CCR § 5192, et seq.	Requirements for conducting emergency response procedures	Section 5.10, *Worker Safety*	Emergency response procedures would be included in the IIPP prepared for the Project and would be developed and implemented in compliance with the requirements set forth in 8 CCR § 5192, et seq.
	8 CCR § 5193, et seq.	Requirements for controlling employee exposure to bloodborne pathogens associated with exposure to raw sewage water and bodily fluids associated with first aid/cardiopulmonary resuscitation (CPR) duties	Section 5.10, *Worker Safety*	Exposure to bloodborne pathogens would be controlled through implementation of requirements set forth in 8 CCR § 5193, et seq.
	8 CCR § 5405, et seq.; § 5426, et seq.; § 5465 et seq.; § 5500, et seq.; § 5530, et seq.; § 5531, et seq., § 5545, et seq.; § 5554, et seq.; § 5565, et seq.; § 5583, et seq.; § 5606, et seq.	Requirements for flammable liquids, gases, and vapors	Section 5.9, *Hazardous Materials Handling*	Use of flammable liquids, gases, and vapors associated with the Project would comply with the requirements set forth in 8 CCR § 5405, et seq., § 5426, et seq., § 5465, et seq., § 5500, et seq., § 5530, et seq., § 5531, et seq., § 5545, et seq., § 5554, et seq., § 5565, et seq., § 5583, et seq., § 5606, et seq.
	8 CCR § 5583, et seq.	Requirements for design, construction, and installation of venting, diking, valving, and supports	Section 5.10, *Worker Safety*	Design, construction, and installation of venting, diking, valving, and supports associated with flammable liquids, gases, and vapors would comply with the requirements set forth in 8 CCR § 5583, et seq.
	8 CCR § 6150, et seq.; § 6151, et seq.; § 6165, et seq.; § 6170, et seq.; § 6175, et seq.; § 6183, et seq.; § 6184, et seq.	Requirements for fire protection	Section 5.10, *Worker Safety*	A Fire Prevention and Protection Plan would be developed in compliance with the requirements set forth in 8 CCR § 6150, et seq.; § 6151, et seq.; § 6165, et seq.; § 6170, et seq.; § 6175, et seq.; § 6183, et seq.; § 6184, et seq.
	24, Part 3, California Electrical Code	Requirements for electrical safety, which include the Uniform Electrical Code, Title 24, Part 3	Section 5.10, *Worker Safety*	Electrical work associated with the Project would comply with the requirements set forth in the California Electrical Code, Title 24, Part 3
	24, Part 9, California Fire Code, Chapter 12, § 1205 through § 1207	Requirements for solar photovoltaic power systems, stationary fuel cell power systems, and electrical energy storage systems (ESS)	Section 5.10, *Worker Safety*	The Project would comply with the requirements for energy storage systems set forth in the California Fire Code, Title 24, Part 9, Chapter 12, Sections § 1205 through § 1207
	California Health and Safety Code (HSC) § 25500 through § 25541	Requirements for the preparation of a HMBP that details emergency response plans for a hazardous materials emergency at the facility	Section 5.9, *Hazardous Materials Handling*	An HMBP would be prepared in accordance with HSC Sections § 25500 through § 25541
	California Public Utilities Code Section 761.3 (g)	Requirements for emergency response and emergency action plans that cover the premises of BESS facilities.	5.10, *Worker Safety*	An emergency response and emergency action plan would be developed in compliance with the requirements set forth in California Public Utilities Code Section 761.3 (g).
Local	Solano County General Plan Policy HS.P-20-HS.P-25	Outlines policies, standards, and programs related to fire hazards.	Section 5.10.3.3 Section 5.10.3.4	The Project would include preparation and implementation of Fire Protection and Prevention Plans during construction and O&M activities that would be consistent with these General Plan policies.
	Solano County General Plan Policy HS.P-26-HS.P-31	Outlines policies, standards, and programs related to hazardous materials.	Section 5.9, *Hazardous Materials Handling*	The Project's conformity with these policies is discussed in Section 5.9, *Hazardous Materials Handling*.
	Solano County General Plan Policy HS.P-48-HS.P-52	Outlines policies, standards, and programs related to noise.	Section 5.3, *Noise*	The Project's conformity with these policies is discussed in Section 5.3, *Noise*.
	City of Vacaville General Plan Policy SAF-P5.2, SAF-P5.4, SAF-P5.5, SAF-P5.7	Outlines policies, standards, and programs related to fire hazards.	Section 5.10.3.3 Section 5.10.3.4	The Project would include preparation and implementation of Fire Protection and Prevention Plans during construction and O&M activities that would be consistent with these General Plan policies.
	City of Vacaville General Plan Policy SAF-P6.2 – SAF-P6.6	Outlines policies, standards, and programs related to hazardous materials.	Section 5.9, *Hazardous Materials Handling*	The Project's conformity with these policies is discussed in Section 5.9, *Hazardous Materials Handling*.
	City of Vacaville General Plan Policy NOI-P1.1 – NOI-P1.3	Outlines policies, standards, and programs related to noise.	Section 5.3, *Noise*	The Project's conformity with these policies is discussed in Section 5.3, *Noise*.

Source: Code of Federal Regulations, California Occupational Safety and Health Act of 1973, CCR, California Health and Safety Code, American National Standards Institute/American Society of Mechanical Engineers

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5.10.3.1 Federal LORS

Title 29 CFR 1910 and 1926

These sections contain requirements to protect worker health and safety in the general industry and construction industry. These regulations also address requirements to protect workers in emergency situations. They are designed primarily to protect worker health but also contain requirements that affect general workplace safety. The California regulations contained in Title 8 (California equivalent of 29 CFR) are generally more stringent than those contained in Title 29. The administering agencies for the above authority are Federal and State OSHA and Cal/OSHA, respectively.

NIOSH

NIOSH was established by the Occupational Safety and Health Act of 1970. NIOSH aims to study worker health and safety to continually improve workplace practices.

Emergency Action Plan

As required by 29 CFR 1910, an employer must have an Emergency Action Plan whenever an OSHA standard in Part 1910 requires one. The Emergency Action Plan must be in writing, kept in the workplace, and available to employees for review, unless there are 10 or fewer employees. The Emergency Action Plan must contain procedures for reporting, procedures for emergency evacuation, procedures for employees who remain for critical plant operations, procedures to account for employees following evacuation, procedures if rescue and medical duties are required, and identified persons who can provide more information to employees.

5.10.3.2 State LORS

California Occupational Safety and Health Act of 1973

The California Occupational Safety and Health Act of 1973 was enacted by California legislature to ensure safe and healthy working conditions for all California employees. This Act created Cal/OSHA to enforce standards and provide education, training, and research in occupational safety and health.

CCR

The CCR contains applicable worker health and safety regulations. Sections of the CCR address hazards including, but not limited to hazardous materials, construction work, electrical systems, equipment, noise, ergonomics, and fires. These sections also outline requirements for programs, procedures, and plans to mitigate injury and/or property damage that can result from these hazards. The relevant sections of the CCR include, but are not limited to:

- Title 8 – Industrial Relations
- Title 24 Part 3 – California Electrical Code
- Title 24 Part 9 – California Fire Code

California Health and Safety Code, Sections 25500 – 25541

The California Health and Safety Code, Sections 25500 through 25541 requires local governments to regulate local business storage of hazardous materials in excess of certain quantities. The law also requires that entities storing hazardous materials be prepared to response to releases. Those using and storing hazardous materials are required to submit an HMBP to their local CUPA and to report releases to their CUPA and the State Office of Emergency Services.

Hazardous Materials Business Plan

The designated CUPA for the Project is the Solano County Environmental Health Services Department. The Hazardous Materials Compliance Program oversees the state-mandated programs in Solano County. The Hazardous Materials Business Plan fulfills the requirements of the California Health and Safety Code, Sections 25500, et seq., and the related regulations of 19 CCR 2620 et seq.

5.10.3.3 Local LORS

Solano County General Plan

California Senate Bill 271 Assembly Bill 2038 required that counties and cities adopt General Plan policies regarding natural hazards. The County of Solano's General Plan Public Health and Safety Element provides direction and resources intended to mitigate death, injuries, and environmental and economic damage. The Solano County General Plan contains several policies that are applicable to worker health and safety, including, but not limited to:

- **Policies HS.P-20 through HS.P-25 – Fire Safety**: To minimize the risk of loss of life, injury, and damage to property and natural resources from wildfire hazards.
- **Policies HS.P-26 through HS.P-31 – Hazardous Materials**: To minimize the risk of loss of life, injury, serious illness, and damage to property resulting from the use, transport, treatment, and disposal of hazardous materials and hazardous wastes.
- **Policies HS.P-48 through HS.P-52 – Noise**: To protect residential and other noise-sensitive uses from exposure to harmful or annoying noise levels; to identify maximum acceptable noise levels compatible with various land use designations; and to develop a policy framework necessary to achieve and maintain a healthful noise environment.

City of Vacaville General Plan

California Senate Bill 271 Assembly Bill 2038 required that counties and cities adopt General Plan policies regarding natural hazards. The City of Vacaville's General Plan Safety Element and Noise Element provide direction and resources intended to mitigate death, injuries, and environmental and economic damage. The City of Vacaville General Plan contains several policies that are applicable to worker health and safety, including, but not limited to:

- **Policies SAF-P5.2, SAF-P5.4, SAF-P5.5, and SAF-P5.7 – Fire Safety**: To minimize the risk of loss of life, injury, and damage to property and natural resources from wildfire hazards.
- **Policies SAF-P6.2 through SAF-P.6.6 – Hazardous Materials**: To minimize the risk of loss of life, injury, serious illness, and damage to property resulting from the use, transport, treatment, and disposal of hazardous materials and hazardous wastes.
- **Policies NOI-P1.1 through NOI-P1.3, and NOI-P4.2 – Noise**: To protect residential and other noise-sensitive uses from exposure to harmful or annoying noise levels; to identify maximum acceptable noise levels compatible with various land use designations; and to develop a policy framework necessary to achieve and maintain a healthful noise environment.

5.10.4 Agencies and Agency Contact

Applicable agency contacts for worker health and safety and fire protection and prevention-related approvals are shown in Table 5.10-6.

Table 5.10-6 Agency Contacts for Worker Health and Safety

Issue	Agency	Contact
Worker Health and Safety	Cal/OSHA, Region 1, American Canyon District Office	Kathy Lynn Garner District Manager 3419 Broadway Street, Suite H8 American Canyon, California 94503 (707) 649-3700
CUPA for HMBP	Solano County Department of Resource Management – Environmental Health Services Division	James Bezek Director 675 Texas Street, Suite 5500 Fairfield, California 94553 (707) 784-6765
Emergency Response for Hazardous Materials Spills and Fires	Solano County, Office of Emergency Services	Robyn Rains Emergency Services Manager 530 Clay Street Fairfield, California 94533 (707) 784-1600 OES@solanocounty.com
Fire Hazards	City of Vacaville Fire Department	Kris Concepcion[1] Fire Chief 630 Merchant Street Vacaville, California 95688 (707) 449-5452
		Jill Childers Fire Safety Coordinator jill.childers@cityofvacaville.com
		Alex Nourot Deputy Fire Chief alex.nourot@cityofvacaville.com
Fire Hazards	Dixon Fire Department	Randy Shafer Acting Fire Chief 205 Ford Way Dixon, California 95620 (707) 678-7060
Hazardous Materials and Noise	Solano County, Department of Resource Management – Environmental Health Services	James Bezek Director 675 Texas Street, Suite 5500 Fairfield, California 94553 (707) 784-6765

[1] Chief Concepcion is anticipated to step down from his position in January 2026 (City of Vacaville 2025b).

Source: Solano County Environmental Hazardous Materials Compliance Program, City of Dixon

5.10.5 Permits and Permit Schedule

Applicable permits and permit schedule related to worker health and safety are shown in Table 5.10-7.

Table 5.10-7 Permits and Permit Schedule for Worker Health and Safety

Permit	Schedule	Status
Trenching and Excavation Permit	Submittal to any Cal/OSHA district or field office prior to commencing construction and at least 24 hours prior to initiation of activities.	To be submitted
HMBP	Submittal at least 30 days prior to operation; submitted through California Environmental Reporting System (CERS). Permit fees are paid to Solano County Environmental Health Hazardous Materials Program.	To be submitted
Tower Crane Permit	Submittal to any Cal/OSHA district or field office at least 24 hours prior to initiation of activities. Permit fees are paid to the Department of Industrial Relations.	To be submitted

Sources: Solano County Environmental Hazardous Materials Program, Department of Industrial Relations

5.10.6 References

California Code of Regulations. Title 8 Industrial Relations.

California Health and Safety Code. Division 20 Chapter 6.95 Hazardous Materials Release Response Plans and Inventory.

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