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Appendix G

Mitigation Monitoring and Reporting Program



Shasta County Department of Resource Management
Planning Division

FOUNTAIN WIND PROJECT

MITIGATION MONITORING AND REPORTING PROGRAM

April 2021



Use Permit No. UP 16-007
State Clearinghouse No2019012029

Prepared for:
Department of Resource Management
Planning Division

Prepared by:
Environmental Science Associates





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ACRONYMS

APM	Applicant Proposed Measure
BBCS	Bird and Bat Conservation Strategy
CEQA	California Environmental Quality Act
CPM	Compliance Project Manager
EIR	Environmental Impact Report
EM	environmental monitors
FAA	Federal Avian Administration
FS	Field Supervisor
MMRP	Mitigation Monitoring and Reporting Program
NCR	Non-Compliance Report
NTP	Notice to Proceed
PFM	Petition for Modification
PM	Project Manager
Project	Fountain Wind Project
RFNTP	Request for NTP
SM	Site Managers
SWPPP	Storm Water Pollution Prevention Plan
TEWS	Temporary Extra Work Space
WEAP	Worker Environmental Awareness Program

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CHAPTER 1

Introduction

1.1 Introduction

This document describes the mitigation monitoring and reporting program (MMRP) to ensure effective implementation of the mitigation measures required for approval by Shasta County (County) of the application for a Use Permit (UP 16-007) by Fountain Wind LLC (Applicant) to construct, operate, maintain, and decommission the Fountain Wind Project (project). The MMRP includes measures proposed by the Applicant (APMs) and all mitigation measures identified by the County to avoid or substantially reduce the project’s potential significant environmental impacts. The Shasta County Department of Resource Management, Planning Division is the Lead Agency under the California Environmental Quality Act (CEQA) (Pub. Res. Code §21000 et seq.) and its implementing regulations, the CEQA Guidelines (14 Cal. Code Regs. §15000 et seq.) for purposes of the EIR and this MMRP. This MMRP refers to the “Project Owner” rather than the “Applicant” to define the responsibilities of Fountain Wind LLC. Project Owner is defined for purposes of implementation of the mitigation measures and compliance with this MMRP as Fountain Wind LLC, its successors and assigns, and/or its contractors (such as third-party consultants).

This Draft MMRP is provided for purposes of disclosure. A Final MMRP will be prepared following certification of the EIR and imposition of conditions of permit approval.

1.2 Project Location and Overview

The approximately 4,464-acre project site consists exclusively of private property operated as managed forest timberlands. It also is within in a geographic area that is traditionally and culturally affiliated with the Pit River Tribe. The property is located approximately 1 mile west of the existing Hatchet Ridge Wind Project, 6 miles west of Burney, 35 miles northeast of Redding, immediately north and south of State Route (SR) 299, and near the private recreational facility of Moose Camp and other private inholdings. Other nearby communities include Montgomery Creek, Round Mountain, Wengler, and Big Bend. Access to the project site would be provided regionally and locally by Interstate 5 (I-5), approximately 35 miles to the west of the project site; SR 139, approximately 60 miles to the east of the project site; SR 299; Moose Camp Road; and three existing, gated logging roads that would be used to enter and leave the project site. Relevant Figures from the EIR are provided in **Exhibit A**, including the project site and the road network to be used for local access to and through the project site.

Fountain Wind LLC has applied for a Use Permit to construct, operate, maintain, and decommission a wind energy generation project (wind turbines and related infrastructure) in an unincorporated area of Shasta County. The project includes up to 72 wind turbines and associated transformers together with associated infrastructure and ancillary facilities that, collectively, would have a maximum total nameplate generating capacity of up to 216 megawatts (MW). Each of the wind turbines would be no more than 679 feet tall, as measured from ground level to vertical blade tip (total tip height), and would have a generating capacity of 3.0 to 6.2 MW.

Associated infrastructure and facilities would include: a 34.5-kilovolt (kV) overhead and underground electrical collector system to connect turbines together and to an onsite collector substation; overhead and underground fiber-optic communication lines; an onsite switching station to connect the project to the regional grid operated by Pacific Gas and Electric Company (PG&E); a temporary construction and equipment laydown area; 14 temporary laydown areas distributed throughout the project site to store and stage building materials and equipment, an operation and maintenance facility; up to four permanent meteorological (MET) towers; temporary, episodic deployment of mobile Sonic Detection and Ranging (SoDAR) or Light Detection and Ranging (LiDAR) systems within identified disturbance areas (e.g., at MET tower locations); two storage sheds; and three temporary batch plants. New access roads would be constructed within the project site, and existing roads would be improved. The project would operate year-round.

1.3 Monitoring Program

1.3.1 Authority

The County has broad regulatory authority pursuant to the police power to protect the public health, safety and welfare of its residents. As stated in the California Constitution, “A county or city may make and enforce within its limits all local, police, sanitary, and other ordinances and regulations not in conflict with general laws” (Cal. Const. at. XI, section 7). Land use and zoning regulations derive from this general police power. Relevant sources of authority include the California Planning and Zoning Law (Government Code §§65000 – 66035), the Mitigation Fee Act (Government Code §§66000 – 66008), CEQA, the County’s General Plan, and the County Zoning Plan. MMRPs are adopted as part of conditions of approval of permits granted pursuant to Shasta County Code and are enforced as such.

CEQA requires the monitoring of mitigation measures to be implemented by a project. Public Resources Code Section 21081.6 requires a public agency to adopt a mitigation monitoring and reporting program when it approves a project that is subject to preparation of an EIR and where significant adverse environmental effects have been identified. CEQA Guidelines Section 15097 clarifies requirements for mitigation monitoring or reporting.

This MMRP includes mitigation measures identified in the Final EIR to avoid or substantially reduce the project’s potential significant environmental impacts as well as measures proposed by the Applicant (APMs) to reduce anticipated environmental effects.

1.3.2 Purpose

An MMRP provides guidelines and procedures for environmental compliance of a project. This Draft MMRP has been prepared for purposes of disclosure. The Final MMRP for this project will be developed by the County in coordination with the Applicant and the County's Environmental Compliance Monitors. It will define the reporting relationships, provide information regarding the roles and responsibilities of the project's environmental compliance personnel, set out compliance reporting procedures, and establish a communication protocol. The communication information listed in the MMRP will be updated throughout construction.

The purpose of the MMRP is to ensure effective implementation of the mitigation measures and APMs identified in the EIR, as imposed by the County. It describes the logistics of the monitoring process and establishes protocols to be followed by the Project Owner and its subcontractors, and the County's Third-party Compliance Monitors. This MMRP includes:

- Procedures for approving minor project changes
- Procedures for dispute resolution
- Mitigation Measures and APMs that the Project Owner must implement as part of the project
- Actions required to implement these measures
- Monitoring requirements
- Timing of implementation for each measure

1.3.3 Implementation of MMRP

Implementation of the MMRP will end when the County determines there is no further need for County monitoring of the project. The project owner is required to perform post-construction monitoring for the project to satisfy mitigation measure requirements that are listed in the MMRP. It is expected that post-construction monitoring and implementation of the MMRP will continue for an appropriate amount of time to verify that post-construction requirements (e.g., revegetation) have been met and that the mitigation requirements to occur during operation, maintenance and decommissioning are implemented as intended.

1.4 Construction Schedule

Project construction is expected to last 18 to 24 months. Generally, construction would occur during daylight hours from 7 am to 5 pm but could vary during summer or winter months, to accommodate specific construction needs or site conditions, to avoid traffic or high winds, or to facilitate the project schedule. A detailed overall schedule for project construction, including the duration of work for key construction activities, is provided in Table 1-1, Construction Schedule.

Project-related construction activities (beyond such pre-construction activities as engineering, design, studies, and permitting) will not begin until the County's Project Manager has issued one or more Notices to Proceed (NTPs) covering the planned activities.

IMPORTANT: Before work can proceed on a work package, a Request for Notice to Proceed (RFNTP) must be made by the Project Owner and approved by the County Project Manager (see Section 4.3, Notice to Proceed Process). The mitigation measures and APMs listed in Section 6 include the locations where these requirements apply and which must be implemented prior to the commencement of construction. The Project Owner will work closely with its contractors to ensure that site-specific mitigation measures are clearly identified and implemented. County Third-Party Compliance Monitors will verify the implementation of mitigation measures prior to and during construction.

**TABLE 1-1
CONSTRUCTION SCHEDULE**

[Construction Schedule to be included in Final MMRP]

CHAPTER 2

Scope of Program

2.1 Mitigation Measures and Applicant Proposed Measures

The project will be subject to mitigation measures and APMs included in the Final MMRP. This Draft MMRP assumes those mitigation measures and APMs to be as identified in the Final EIR. Each RFNTP will provide the County with mitigation measures applicable to the phase of work and organized by each of the various implementation phases, which include, for example, site preparation, construction, operation and maintenance, and decommissioning.

2.2 Permits and Authorizations

The County is the Lead Agency for the project. However, the project facilities affect resources or require activities that are under the jurisdiction of or regulated by other agencies. Agencies that may require separate permits or approvals, and relevant contact information, are to be provided with the applicable RFNTP.

All required permits applicable to an RFNTP are to be secured and their terms and conditions implemented prior to undertaking any work that requires such permits. All permits acquired for a RFNTP shall be provided to the County prior to undertaking work authorized by any permits. The Project Owner will provide notice to the County of agency contacts, direction, and resolutions. Independently, and under their own authority and discretion, permitting agencies may implement their own monitoring and reporting schemes and undertake whatever enforcement actions they are authorized to pursue.

IMPORTANT: The status of required permits will be included in each request for an NTP. Copies of permits, including any permit requirements and stipulations, shall be provided to the County.

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CHAPTER 3

Roles and Responsibilities

3.1 Introduction

The Project Owner is responsible for implementing and maintaining all mitigation measures, and for obtaining and complying with all required permits. The Project Owner is responsible for ensuring that its agents and contractors comply with the MMRP. The Project Owner also is responsible for satisfying requests from jurisdictional agencies and will notify and copy the County on all correspondences related to final approvals and verifications for the project if not otherwise copied on the correspondence.

Standards for successful mitigation are implicit in some mitigation measures, such as obtaining non-discretionary permits or avoiding a specific impact entirely. Additional resource avoidance or impact minimization conditions may be imposed by applicable agencies with jurisdiction through their discretionary permit processes.

IMPORTANT: The Project Owner will inform the County Project Manager (County PM) in writing of mitigation measures that are not or cannot be successfully implemented. While the County recognizes the need for flexibility post-decision in response to changed circumstances, it believes changes should be the exception to the rule, and it intends to ensure that any proposed change is subject to rigorous standards. Consequently, some requested changes may qualify for the process set forth in the MMRP for minor project refinements (Section 4.6.1); others may require the submittal of an application to amend the use permit pursuant to County Municipal Code Section 17.92.025, as it may be amended from time to time.

The County, as the CEQA Lead Agency, is responsible for ensuring that all mitigation measures are implemented in a timely fashion as specified, and that the County PM verifies the Project Owner's compliance with mitigation measures. Other jurisdictional agency representatives may visit construction areas at any reasonable and safe time, and may require information regarding the status of compliance with particular mitigation measures or permits. All visitors, including regulatory agency personnel, must sign-in with the job site safety representative and receive the site safety briefing before entering work sites. Site visits to active work sites will be coordinated with the Project Owner's Compliance Project Manager and/or site representative ahead of time. Additional information on communication protocols is presented in Section 4, Procedures.

This section describes specific Project Owner and County roles and responsibilities for the project, and titles that will be assigned to personnel in these roles. A Roles and Responsibilities Organizational Chart will be provided in **Exhibit B** of the Final MMRP.

In addition, a list of designated personnel who will perform these and other monitoring roles, including their organization and contact information, will be included in **Exhibit C**. These personnel and their contact information will be updated as necessary throughout implementation of the MMRP to reflect personnel changes.

3.2 Project Owner Compliance Personnel

The Project Owner's personnel and contractors are responsible for implementing all project mitigation measures and the MMRP. It is the Project Owner's responsibility to comply with project requirements, plan construction activities in a manner that meets these requirements, document compliance activities and the results of mitigation, and implement the MMRP. The compliance personnel titles, and roles and responsibilities presented below represent a preliminary approach to the project. The titles for project personnel and their associated roles and responsibilities are subject to change and a single project personnel member may take on more than one role. The project organization chart included in Exhibit B, present personnel assigned to the roles, and relationships between the roles. If/when the organization structure changes, the organization charts will be updated.

3.2.1 Project Owner Project Manager

The Project Owner's Project Manager (PM) is identified in Exhibit B and shall be the owner's representative, with the lead and ultimate responsibility for implementing environmental requirements and compliance with the MMRP. The Project Owner PM is typically responsible for managing subcontractors that are providing construction services, as well as environmental services such as compliance monitoring. The Project Owner PM's responsibilities typically include:

- Managing all onsite contractors.
- Directing the development and implementation of preconstruction environmental mitigation, planning, permitting, and compliance activities; environmental inspection program; and environmental training.
- Ensuring compliance with and monitoring compliance of mitigation and other environmental requirements during construction.
- Monitoring and reporting post-construction restoration and compensation requirements.
- Communicating environmental requirements to the Project Owner Compliance Team and Construction Managers
- Communicating with the County Compliance Monitoring Team regarding environmental requirements, construction needs, and construction schedule changes
- Communicating with the jurisdictional agencies regarding environmental requirements, construction needs, and construction schedule changes
- Reporting the effectiveness of mitigation and regularly submitting required documentation and notifications to the County

- Providing leadership to correct any issues with environmental compliance

3.2.2 Project Owner Compliance Project Manager

The Project Owner Compliance Project Manager (CPM) is identified in Exhibit B and is typically responsible for overseeing compliance with the MMRP, and other project requirements. The CPM also will act as a liaison between environmental and construction staff. The CPM's typical responsibilities include:

- Ensuring compliance with mitigation and other environmental requirements during construction.
- Communicating environmental requirements to Construction Project Managers, Project Engineers, Superintendents, and Construction Foremen
- Communicating with the County Monitoring Team regarding environmental requirements, construction needs, and construction schedule changes
- Providing oversight of environmental monitoring
- Coordinating with construction management personnel
- Monitoring and reporting post-construction restoration and compensation requirements
- Resolving compliance issues
- Providing leadership to correct any issues with environmental compliance
- Identifying project changes requiring GIS updates to address work new work areas

3.2.3 Project Owner Field Supervisor

The Project Owner Field Supervisor (FS) is identified in Exhibit B and typically oversees the day-to-day environmental monitoring activities during construction. In addition, the FS will provide day-to-day direction to the Field Monitors and serve as the liaison between Project Owner construction management personnel and Field Monitors. Typical roles and responsibilities for the Project Owner FS include:

- Providing oversight of applicable mitigation requirements
- Coordinating with County and compliance personnel
- Coordinating with Project Owner construction management personnel
- Resolving compliance issues
- Scheduling field staff to support anticipated construction
- Providing day-to-day direction, oversight, and mentoring of Field Monitors and specialty monitors
- Clarifying mitigation requirements and County conditions to field staff
- Reviewing and providing QA/QC of daily monitoring reports

- Preparing summary reports
- Communicating with the County and regulatory agency personnel in the field, in coordination with subject matter experts, CLs, and ECs
- Conveying work stoppage information such as delay time
- Participating in tailboard meetings to focus construction and monitors on issues or resources

3.2.4 Project Owner Site Managers

The Project Owner will designate Compliance Site Managers (SMs) to be identified in Exhibit B who will assist with implementation of the environmental requirements and implementing the MMRP. The roles and responsibilities of the SMs consist of those that are delegated by the Project Owner PM, and in addition to sharing the delegated roles and responsibilities of the Project Owner PM, the typical roles and responsibilities of the SMs may include:

- Providing oversight of applicable mitigation requirements
- Coordinating with County and compliance personnel
- Providing oversight of environmental monitoring
- Coordinating with subject matter experts
- Coordinating with field leads
- Coordinating with construction management personnel
- Communicating and resolving elevated compliance issues with the Project Owner and the County Monitoring Team in the form of Temporary Work Space Requests, Minor Project Refinement Requests, and Project Modifications
- Coordinating mitigation plan changes with the Project Owner, appropriate agencies, and the County Monitoring Team
- Coordinating and preparing Compliance Documentation Tables

3.2.5 Project Owner Lead Biologist

The Lead Biologist (to be identified in Exhibit B) will be responsible for compliance with the biological mitigation measures, other biological project requirements, and mitigation plan implementation and for communicating and coordinating with the Project Owner PM and CPM. The Lead Biologist will be responsible for managing all biological staff and will provide project history and subject matter expertise. The Lead Biologist will provide support and oversight for the Field Supervisor and Field Monitors. The Lead Biologist also will be responsible for making recommendations regarding the monitoring approach and mitigation measure implementation. The Lead Biologist will be a point of contact for agency staff and responsible for working to resolve disputes. Other Lead Biologist responsibilities typically include:

- Providing oversight of applicable mitigation requirements

- Coordinating with the County, appropriate wildlife agencies, and compliance personnel
- Providing oversight of biological monitoring
- Coordinating with subject matter experts
- Coordinating with field leads
- Coordinating with construction management personnel
- Resolving compliance issues in coordination with the County, Project Owner PM, Project Owner CPM, and regulatory agencies
- Developing recommendations for compliance processes and protocols

3.2.6 Project Owner Field Monitors

Project Owner Field Monitors (FMs) (to be identified in Exhibit C) may change over the course of the project. FMs shall work closely with construction personnel in the field to implement mitigation and perform, or oversee, required monitoring tasks. The FMs shall be the primary field employees responsible for monitoring day-to-day environmental compliance. Project Owner FMs will primarily be biological monitors trained to monitor compliance with biological mitigation measures, as well as measures addressing other resources (e.g., storm water pollution prevention plan [SWPPP], fugitive dust) with the ability to coordinate with specialty monitors (e.g., cultural, tribal, paleontological) when needed. The FM's responsibilities typically include:

- Understanding environmental project requirements and construction needs
- Taking direction from the Project Owner CPM, FS, and SMs
- Conducting or overseeing monitoring activities specified in project mitigation measures
- Implementing the MMRP
- Participating in daily tailboards
- Conducting preconstruction surveys/sweeps of the construction site and areas around equipment
- Verifying staking, flagging, or marking sensitive resources in the field
- Relocating biological resources under direction of qualified biologists/specialty monitors
- Placing 1-hour holds on construction, as needed
- Providing mitigation guidance, as needed
- Documenting non-compliance issues
- Coordinating with the FS, SMs, Project Owner CPM, and construction management, as needed
- Preparing daily monitoring reports

- Determining the effectiveness of mitigation and reporting whether adjustments need to be made to the Compliance Team

3.2.7 Project Owner Construction Contractors

Under the direction of the Project Owner, subcontracted construction crews are responsible for complying with mitigation measure requirements and the MMRP. Exhibit B will present the Roles and Responsibilities Organizational Chart, which will include the primary contractors that will be used on the project.

3.3 County Monitoring Team

3.3.1 County Project Manager

The County PM has overall responsibility for ensuring that the MMRP is implemented as adopted by the County. The County PM will determine the effectiveness of the MMRP based on the implementation of the processes prescribed in the MMRP and measures included in tables to be included in an appendix to each RFNTP. The County PM may delegates field monitoring and reporting responsibilities to third-party compliance monitors during construction and will oversee their work through regular status reports. The County PM will be notified of all noncompliance situations and may suggest measures to help resolve the issue(s).

IMPORTANT: The County PM will issue NTPs for construction of each work package identified by the Project Owner. However, the County’s NTP does not authorize construction to start if additional approvals are required from other agencies and such approvals have not been obtained at the time of issuance of an NTP. No construction requiring a permit may occur on other jurisdictional lands without specific approval by those agencies.

3.3.2 County Monitoring Manager

The overall monitoring program will be administered under the direction and oversight of the County PM. The County may delegate monitoring and reporting responsibilities to a third-party monitor. The number of monitors and the frequency of site inspections during construction and decommissioning will depend on the number of concurrent activities and their locations with respect to sensitive resources and land uses, and compliance with project mitigation measures. During operations third party monitors may be utilized as needed.

The County Monitoring Manager’s responsibilities typically include:

- Managing the County Monitoring Supervisor and communicating regularly with the County PM
- Reviewing County monitoring reports and discussing non-compliance issues with the County PM
- Reviewing reports and other documentation provided by the Project Owner for MMRP compliance
- Reviewing NTP Requests and Temporary Extra Work Space requests and submitting to County PM for approval and sign-off

- Acting as project liaison on the County’s behalf to work with the Project Owner’s public affairs staff and address community issues and concerns if and when they arise
- Working with Project Owner Compliance Personnel to resolve any issues and incidents
- Coordinating with other jurisdictional agencies as needed

3.3.3 County Monitoring Supervisor

The County Monitoring Supervisor will support the County PM and County Monitoring Manager by overseeing the day-to-day mitigation monitoring efforts. The County Monitoring Supervisor shall perform the delegated duties of the County Monitoring Manager. The responsibilities of the County Monitoring Supervisor typically include:

- Providing oversight of the County Environmental Monitors (field staff), including training, orienting, scheduling, coordinating and conducting routine monitoring activities described in the MMRP on behalf of the County
- Implementing the County’s responsibilities for MMRP procedures, and verifying that the Project Owner fulfills its responsibilities
- Reviewing all pre-construction mitigation plans and preparing draft review memoranda for the County PM, and keeping a record of MMRP procedures
- Determining the appropriate frequency of site visits for County environmental monitors (EMs)
- Conducting regular visits at beginning of construction, with frequency adjusted as appropriate
- Verifying and documenting the Project Owner’s compliance with all project requirements prior to, during, and following construction, and creating an independent record of project compliance
- Documenting any incidents with compliance, reporting them to the County PM, and tracking the project compliance record
- Reviewing all County and Project Owner monitoring reports
- Preparing MMRP compliance reports and submitting to the County
- Reviewing RFNTPs for Monitoring Manager’s review and County’s review and sign-off
- Reviewing the Project Owner’s compliance reports for consistency with field observations and identifying and reconciling any inconsistencies
- Coordinating all aspects of the project with the Project Owner’s Compliance Personnel
- Communicating directly with the Project Owner’s Compliance Personnel regarding notification of County site visits, schedule updates, MMRP procedures, and any compliance incidents observed during site inspections
- Working with the County Monitors and Project Owner Compliance Personnel to resolve any compliance incidents.

3.3.4 County Environmental Monitors

County EMs shall be the primary field personnel for the County, and are responsible for verifying compliance with project requirements at the project sites as directed by the County Monitoring Supervisor. The County EMs will be the primary point of contact with in-field agency personnel on behalf of the County. County EMs will be an integral part of the project team and will stay apprised of construction activities and schedule changes, and will monitor construction activities for compliance with project mitigation measures. The County EMs will document compliance through field notes and will prepare reports documenting construction activities, progress, and compliance. The County EMs shall note any issues or problems with implementation of mitigation, notify the appropriate designated project members, and report problems to the County PM. The typical responsibilities of the County EMs include:

- Inspecting the project sites, documenting construction and compliance activities, and reporting any potential compliance incidents
- Preparing and submitting daily monitoring reports to the County Monitoring Supervisor, and relaying any important information about the project delivered in the field

IMPORTANT: The enforcement authority of the County EM in the field is limited to conditions posing imminent safety or resource endangerment concerns at a work location. The County EM is authorized to work with project personnel to temporarily stop work under these conditions if it is safe to do so. The Project Owner will address the identified issues. Only the County PM has authority to shut down the project completely.

3.4 Jurisdictional Agencies

Personnel from jurisdictional agencies may periodically visit the project site to verify compliance or to request information from the Project Owner regarding compliance with laws, regulations, and project permits identified in **Exhibit D**. All visitors, including regulatory agency personnel, must sign-in with the job site safety representative and receive the site safety briefing before entering work sites. Site visits to active construction sites will be coordinated with the Project Owner CPM and/or site representative ahead of time. The Project Owner is responsible for responding to requests from jurisdictional agencies and submitting permits and authorizations to County per applicable mitigation measures described in the MMRP. The Project Owner shall provide the County with documentation (i.e., email correspondence, letters, and/or memoranda) related to final agency approvals for the project if the County is not directly involved with the coordination effort and the agency approval is tied to mitigation measures. The Project Owner also shall provide any copies of permit amendments or modifications to the County and notify the County of any proposed changes in permit conditions. In addition, the County may contact jurisdictional agencies at any time regarding the project and to clarify agency requirements, permit conditions, or approvals relating to their jurisdiction, as needed. Prior to the County communicating with jurisdictional agencies, the County will notify the Project Owner PM or Project Owner CPM of the County's questions regarding the jurisdictional agency's requirements, permit conditions, or approval and the intention to contact the agency. If appropriate, the County may request that the Project Owner seek the requested clarification or invite the Project Owner to

participate in the discussion in a manner that is mutually convenient with all parties; however, the County retains the authority to coordinate directly with other agencies regarding the project and permit conditions or plan review comments.

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CHAPTER 4

Procedures

This section addresses MMRP procedures for personnel identified in Section 3 that shall be implemented prior to, during, and following construction to facilitate successful implementation and documentation of project requirements. Procedures in this section include general communication guidelines, standard County practices, and documentation tools developed from experience with past projects that involved mitigation monitoring oversight.

4.1 Communication Guidelines

Good communication is essential to successful implementation of an environmental mitigation compliance program. To avoid project delays, the County and Project Owner environmental and construction representatives will interact regularly and maintain professional, responsive communications at all times. Project Owner environmental representatives will coordinate closely with County EMs throughout the monitoring effort to ensure that issues are addressed and resolved in a timely manner. To that end, this section provides a communication protocol for the timely and accurate dissemination of information to all levels of the project regarding surveys, plans, mitigation measures, construction activities, non-compliance incidents, and planned or upcoming work.

A list of current construction monitoring personnel and managers, identified by title, and with contact information will be provided in Exhibit C. An updated list will be distributed as needed to keep all parties informed of monitor and staff additions/changes, as well as construction scheduling changes. This list of personnel, subsequent updates, and construction schedule changes will be distributed to all persons on the list throughout the construction process.

4.1.1 Pre-Construction Compliance Coordination

The Project Owner is required by the terms of the mitigation measures and the permitting requirements of various other regulating agencies to prepare plans and obtain approval of these documents, in addition to performing various surveys and studies prior to construction. During this pre-construction process, the Project Owner will conduct meetings, conference calls, and site visits with technical representatives of the County and other agencies, and the Project Owner's environmental representatives as appropriate. The purpose of the pre-construction coordination process is to discuss document submittal status, document the findings of data reviews and jurisdictional agency approvals, review Project Owner submittals, and document the status of mitigation measures as they apply to the project. The goal of the pre-construction process is to complete all required actions so the County and other agencies, as appropriate, can issue NTP authorizations.

4.1.2 Communication Protocol During Construction

Daily Communication During Construction

Many of the problems that come up during construction can be resolved in the field through regular communication between County EMs, the Project Owner, and construction contractors. Field staff will be equipped with cell phones and will be available to receive phone calls at all times during regular construction hours provided cellular service is available at the particular work site. An alternative system of communication, including but not limited to two-way radio, satellite phone, or other reliable means, shall be established to allow immediate communication from locations where cellular service is not available. A project contact list will be included in Exhibit C. The organization chart in Exhibit B will illustrate the lines of communication to be used during construction. The following provides additional guidelines to ensure effective communication in the field.

County Environmental Monitors

The County EM's primary points of contact in the field are the Project Owner's FS and SMs. The County EMs will contact the Project Owner's FS and SMs if an activity is observed that conflicts with one or more of the mitigation measures, so that the situation can be corrected. If the County EM cannot immediately reach the Project Owner's FS and SMs, the Project Owner's CPM will be contacted to address the problem. Similarly, the County EM will contact the Project Owner's FS and SMs for information on where construction crews are working, the status of mitigation measures, and schedule forecasts. The County EM may discuss construction procedures directly with the construction contractors as long as a representative from the Project Owner's Compliance Personnel is present during the discussion. The County EM will contact the designated Project Owner representative if a problem is noted that requires action from the contractor. The County EM will not direct the contractor; however, the County EM has the authority to stop work, assuming it is safe to do so, if an activity poses an imminent threat to resources or puts a sensitive resource at undue risk.

Project Owner

The Project Owner will provide the County Monitoring Supervisor and EM with a list of construction monitoring personnel and construction supervisory staff to contact regarding compliance incidents. The contact list will include each person's title, responsibility, contact information, and whether their position is segment-specific. The contact list will be updated as new project personnel are assigned to the project and redistributed as necessary. The Project Owner will prepare and distribute a regular Compliance Reports for distribution to key project members, including the County. The County Monitoring Supervisor will review the report to ensure that the status of mitigation measures is consistent with observations in the field. Any questions regarding the status of mitigation measures will be directed to the Project Owner PM. The regular Compliance Reports also will be a tool to keep all parties informed of construction progress. Note that regular Compliance Reports will also be prepared by County EMs and regular Compliance Reports will be prepared by the County Monitoring Supervisor as described below.

Regular Progress Meetings During Construction

The Project Owner CPM will conduct regular meetings with construction managers, supervisors, environmental representatives, County EMs, and other appropriate staff to discuss work completed, work anticipated for the following period, and the status of mitigation measures. The meetings also will provide a forum for discussing environmental compliance issues or concerns.

Site Visit Coordination

Field personnel from both the Project Owner and the County shall coordinate site visits with the Project Owner SMs who is familiar with authorized construction activities, project requirements, and any restricted areas (i.e., dangerous conditions, unauthorized work areas, or the presence of sensitive resources). Conditions in the field may change rapidly and Project Owner field personnel must ensure that all field personnel are adequately informed of restricted areas, parking locations, communication procedures, and site-specific safety risks on an ongoing basis.

County EMs and the Monitoring Supervisor shall conduct routine site inspections. At a minimum, County EMs will notify a designated Project Owner FS and SMs prior to visiting the site. If contact cannot be made, County monitoring personnel will inspect open areas of the project site on foot. County field personnel shall at no time enter active construction project boundaries unless authorized or escorted by a member of the Project Owner Compliance Team.

4.1.3 Project Owner Reportable Events

Unanticipated events may occur that impact project personnel, public safety, or resources and may not be observed by the County EM. While these events may not result in a deviation from or violation of a mitigation measure or permit condition, it is important that these events be reported to the appropriate agencies and the County so they are in a position to respond to questions or concerns from the public or managers. Accordingly, the Project Owner CPM will immediately report these events to the County EM and to County and other regulatory agencies. The Project Owner EPM will submit to the appropriate agency, if any, and to the County a final electronic notification characterizing the event, actions taken, and outcomes. Any event that affects, or could potentially affect, project personnel or public health and safety is immediately reportable and would include the following examples:

- An occurrence that posed or could have posed a risk to public health and safety
- Any event requiring emergency response (police or fire)
- A “near miss” event involving construction equipment and, in the Project Owner CPM’s reasonable judgment, had the potential to result in serious bodily harm or death.
- Any fire caused by construction activities
- Inadequate traffic control resulting in an accident
- Any toppled piece of equipment

Any event that impacts, or poses an imminent risk to, a sensitive resource is immediately reportable and would include the following examples:

- Any event a mitigation measure failed to address
- A violation of a permit condition
- Any resource buffer incursion by construction personnel or significant non-compliance incident
- Any directed work stoppage or construction holds
- Discovery of unanticipated resources such as archaeological artifacts outside of known cultural sites

4.1.4 Questions and Clarifications

Questions and the need to clarify project requirements will periodically arise throughout the implementation process. Both the Project Owner and County shall submit important questions and clarifications in writing via email. Resolutions and any County determinations shall be documented in compliance and monitoring reports, and/or in email correspondence. Questions and clarifications that take an extended period of time to resolve shall be tracked by the County Monitoring Team until a resolution has been reached.

4.1.5 Requests for Documentation

The County Monitoring Team may periodically request written documentation and confirmations from Project Owner Compliance Personnel that will be entered into the project record. Requests for documentation and confirmations shall be submitted via email. If the information will take an extended period of time to gather, both the Project Owner and the County shall agree upon a timeframe to respond, and the request shall be tracked by the County Monitoring Personnel until a resolution has been reached.

4.1.6 Construction Schedule

The Project Owner shall inform the County Monitoring Team immediately of any delays in the construction schedule as laid out in each approved RFNTP that may affect the project and implementation of the approved RFNTP.

4.1.7 Dispute Resolution

Disputes or complaints may develop between the Project Owner and the County if there are conflicting interpretations of project requirements and procedures. It is expected that the MMRP will reduce or eliminate the potential for disputes; however, disputes may occur even with the best preparation. Any disputes or complaints shall first be addressed informally at the field level between the County EM and Project Owner FS and SMs, or during project progress meetings. Questions may be directed to other members of the Project Owner Compliance Personnel and the County Monitoring Team as needed.

If the dispute cannot be resolved informally in the field, the following procedures will be observed for dispute resolution between County staff and the Project Owner: Disputes and complaints should be directed to the County PM for resolution. Should this informal process fail, the County PM may initiate enforcement or compliance action to address deviations from the approved project.

4.2 Pre-Construction Compliance Verification

Prior to beginning construction, the Project Owner is required by the terms of the mitigation measures and the permitting requirements of various other regulating agencies to prepare plans and obtain approval of these documents, in addition to performing various surveys and studies prior to construction. The plans, surveys, studies, and other documentation required to be completed by the Project Owner before construction are listed in the mitigation measure in Section 6.

Other agencies may review documents prior to or concurrent with the County if required by the mitigation measures or permitting requirements. Compliance with all pre-construction mitigation measures presented will be verified prior to construction.

The County, Monitoring Manager, Monitoring Supervisor, and, if applicable and/or necessary, technical experts will review all mitigation plans and reports and provide comments, as applicable. As required by the mitigation measures and/or the County, resource agencies will also be involved in the review of applicable plans and reports and will provide comments. Comments on these documents will be provided to the County to ensure that they adequately accomplish the intended mitigation for impacts and meet the mitigation measure or permit requirements. Based on the Project Owner's construction plans, the County may authorize construction to begin on a phased basis and the County monitors will handle pre-construction compliance review accordingly. The County may issue NTPs for construction of each phase separately, as soon as preconstruction compliance is satisfactorily accomplished for that phase.

IMPORTANT: Compliance with all pre-construction mitigation measures will be verified prior to construction, and construction may not start on any work package before the Project Owner receives a written NTP from the County PM and other necessary approvals, if any. In addition, demarcation of approved disturbance areas and any resource exclusion areas must be validated in the field by the County EM prior to any construction activities authorized by the NTP. In general, the County will not issue an NTP until all pre-construction requirements have been fulfilled for a given phase. To save time, the Project Owner should identify all required additional work space needs for each phase of construction prior to the start of active construction, so that the locations and their use can be included in the NTP.

4.3 Notice to Proceed Process

The Project Owner is required to obtain County authorization prior to initiating project activities through the NTP process. The NTP process involves the Project Owner Compliance Personnel submitting an NTP request package to the County Monitoring Team, and the County PM issuing a NTP Authorization Letter. The County will not authorize construction to begin until all pre-construction requirements have been fulfilled for a given phase. To save time, the Project Owner

should identify extra work space needs required for each phase of construction prior to the start of active construction, so that the locations and their use can be included in the NTP. Project activities may be authorized through one or more NTPs for separate project phases as determined necessary by the Project Owner Compliance Personnel and the County Monitoring Team. In general, an NTP request must include the following information:

- NTP request number; dated submitted to County; requested approval dated
- Anticipated start and end date for the proposed actions
- Detailed description of the proposed actions requested in the NTP
- Detailed description of the location, including maps, GIS data, photos, and/or other supporting documents. Maps showing all proposed work areas, access roads, and staging areas will be provided.
- Estimate of total new land disturbance associated with the project
- Anticipated equipment required for construction
- Verification that all mitigation measures have been met, apply, or do not apply to the work covered by the NTP request
- If compliance with some requirements cannot be met prior to NTP issuance, the reasons will be identified and noted in the NTP request
- Up-to-date resource surveys or a commitment to conduct surveys and submit results prior to construction
- Summary list of any previously authorized actions (if applicable) as detailed in NTP Authorization Letters

The County Monitoring Team shall review NTP requests to ensure the proposed actions are consistent with the Final EIR and final County decision, and to verify compliance with all pre-construction requirements applicable to a given NTP request. The County Monitoring Team may request additional information during the NTP review process as needed. Once it has been determined that all applicable pre-construction requirements have been completed and documented to the satisfaction of the County, the County PM will submit an NTP Authorization Letter to the Project Owner's PM. The NTP Authorization Letter will address any conditions of approval, and include applicable documentation as necessary for the authorized actions.

4.4 Compliance Reporting During Construction

The County EMs will perform compliance inspections throughout construction to ensure compliance with all applicable mitigation measures, plans, and conditions of approval from County. The County EM will document observations in the project area through field notes and digital photography. The photographs will be incorporated in regular reports and related to a discussion of specific construction or compliance activity. In addition, field logs documenting compliance of specific crews, construction activities, or resource protection measures will be

maintained. Field logs will be used to prepare regular reports and to track and update the status of mitigation measures listed in Section 6.

Site visits by the County may be coordinated with the Project Owner CPM and/or SMs ahead of time, or be unannounced. All visitors, including regulatory agency personnel, must sign-in with the job site safety representative and receive the site safety briefing before entering work sites. Supplemental information provided by the Project Owner, including pre-construction submittals, survey reports, weekly reports, and agency correspondence also will be used to verify compliance.

4.4.1 Project Owner Regular Compliance Reports and Checklists

The Project Owner compliance team will prepare and distribute a regular environmental compliance status report for distribution to key team members, including the County. The County EM will review the reports to ensure that the status of mitigation measures is consistent with observations in the field. Questions regarding the status of mitigation measures will be directed to the Project Owner CPM and/or FS. The environmental compliance status report also will be a tool to keep all parties informed of construction progress.

Prior to the start of monitoring activities, the Project Owner shall provide a proposed schedule and format describing content and organization of Compliance Reports for County review and approval. The Compliance Report shall be a condensed, singular report that includes, but is not limited to the following components:

- Clear and specific description of construction activities and work locations
- Current project completion status
- Monitoring reports describing construction activities monitored with specific project locations and any findings or compliance incidents
- All non-compliance incidents reported during the reporting period, including date, detailed description, and corrective actions implemented
- Summary including locations of preconstruction or focused surveys conducted
- All new sensitive resources identified during surveys or construction monitoring for the subject reporting period
- Update of bird nesting activities and buffer distances
- Summary of special status wildlife or plant relocations, if any
- Any SWPPP-related corrective actions or maintenance observations identified during the subject week, including date, location, description, and resolution
- Any hazardous materials spills defined as reportable by project mitigation measures and/or plans
- List of personnel trained under the Worker Environmental Awareness Program (WEAP), including names and dates

4.4.2 County Compliance Reporting

The County EM will determine whether the observed construction activities are consistent with mitigation measures and project parameters as identified in the Final EIR. All observations and communications will be noted in a logbook, including photos. Deviations from mitigation measures, or approved plans will be considered non-compliant events and will be documented. Supplemental information provided by the Project Owner, including pre-construction submittals, survey reports, Compliance Reports, and agency correspondence also will be used to verify compliance.

4.4.3 Incident Reports

Incident Reports for Level 1-3 Incidents shall be prepared by the observing party (either the Project Owner or the County) and submitted to the alternate party within one business day of the observation. Level 1 Incidents will be reported through a brief email from the observing party. Level 2 Incidents will be reported through a Project Memorandum. Level 3 Incidents require preparation of a Non-Compliance Report (NCR). At a minimum, Incident Reports must include the following information:

- Incident Category
- Compliance Level (if applicable)
- Incident Start Date (i.e., date event began, if known, or initial observation date)
- Summary of Incident (i.e., description of the event or observation, personnel present, and actions taken to resolve the issue)
- Resolution Date (if known)

All incidents (Levels 1-3) shall be addressed in MMRP reports prepared by both the Project Owner and the County, and Incident Reports shall be attached to the MMRP reports for the applicable period. In addition to Incident Reports, incidents rising to the level of Noncompliance may require preparation of memoranda describing the event in greater detail and corrective actions necessary to bring the project back into compliance.

4.5 Incidents and Stop Work Orders

The goal of this MMRP is to plan for and avoid any non-compliance incidents that could occur during implementation; nonetheless, there is a potential for compliance incidents to arise due to a variety of factors. For the purposes of this MMRP, compliance incident levels are defined in **Table 4-1** below. This section addresses incidents that may occur and procedures that shall be followed to document them.

**TABLE 4-1
COMPLIANCE LEVELS**

Incident Level, Reporting Term, and Severity	Examples	Action	Follow-up
<p>Level 0: Unanticipated Event <i>Definition:</i> An event that is outside the project's control.</p>	<p>Discovery of previously unknown cultural (archeological resource or feature) or significant paleontological resources.</p> <p>Identification of a special status species not anticipated based on analysis in the EIR.</p> <p>Encountering previously undocumented subsurface hazardous substances during excavation activities.</p>	<p>The Project Owner FS, SMs, or FMs onsite will stop work. Project Owner CPM or assigned designee will inform the County Monitoring Supervisor and any other relevant resource agencies. Project Owner CPM will work with the agencies to develop and implement an appropriate solution. The event will be documented Compliance Report.</p>	<p>The Project Owner Compliance Team and Contractor staff will implement the solutions as developed in cooperation with the appropriate agencies. Ultimately, the efficacy of the solutions will be documented by the FS, SMs, and FMs as construction activities resume.</p>
<p>Level 1: Minor Incident <i>Definition:</i> An event or observation that slightly deviates from project requirements, but does not put a resource at unpermitted risk.</p>	<p>Project personnel used an unapproved access road or turnaround area, but the site was previously disturbed and the action did not put a sensitive resource at risk.</p> <p>Soil or construction material was placed outside of an approved work area, but the material was removed at the end of the day.</p>	<p>An oral warning shall be provided by the County Monitoring Supervisor to the Project Owner CPM (or assigned designee). Corrective action shall begin by the next construction day. County Monitoring Supervisor also will briefly document the incident in a follow-up email. A Minor Incident will be included in the Compliance Report.</p>	<p>If corrective action is not initiated by the next construction day, the County Monitoring Supervisor will elevate the incident to the County Monitoring Manager who will review courses of action available and will notify the County PM if necessary. If allowed to continue, this non-compliance incident could result in a serious impact over time, and result in a Project Memorandum or Non-Compliance Report (NCR).</p>
<p>Level 2: Moderate Incident <i>Definition:</i> An event or observation that deviates from project requirements and puts a resource at risk, but is corrected without impacting the resource.</p>	<p>A fuel tank was stored overnight within specified limits of a water body without secondary containment, but did not result in release of hazardous materials.</p> <p>Mobilization of equipment or materials to a previously disturbed work site prior to receiving NTP authorization from the County.</p> <p>A diesel-powered vehicle not in use was observed idling for an extended period of time.</p>	<p>A verbal notice shall be given by the Project Owner FS, SMs or FMs, followed immediately by written documentation of the incident in a Project Memorandum sent by the County Monitoring Supervisor to Project Owner CPM (or assigned designee). Corrective action shall begin immediately if feasible.</p>	<p>If corrective action is not taken immediately or the corrective action is insufficient, the County EM shall notify the County PM, Monitoring Manager, and Monitoring Supervisor, who will review courses of action available, potentially including issuance of a Project Memorandum, NCR, and/or a Project Stop Work Order.</p>
<p>Level 3: Major Incident <i>Definition:</i> An event or observation that violates project requirements and impacts a resource. Repeated Compliance Deviations left unaddressed may also rise to a Level 3 incident.</p>	<p>Vegetation clearing and grading of a work site prior to receiving NTP authorization from the County.</p> <p>Soil or construction material was placed outside of an approved work area in an environmentally sensitive area.</p> <p>Erosion control BMPs failed during a storm and sediment was discharged into a sensitive area.</p> <p>Project vehicles entered a sensitive resource exclusion area and damaged a resource.</p>	<p>A verbal notice shall be given to the Project Owner FS, SMs, or FMs, followed immediately by a written NCR from the County Monitoring Manager to Project Owner CPM (or assigned designee). Corrective action shall begin immediately. Based on the severity of a given infraction or pattern of noncompliant activity, the County may direct that all or some portion of the work be stopped.</p>	<p>If a shutdown of construction or an activity is ordered, the construction or activity shall not resume until authorized by the County PM in writing. If corrective action is not taken immediately or the corrective action is insufficient, the County EM shall notify the County PM, Monitoring Manager, and Monitoring Supervisor, who will review courses of action available, potentially including a Stop Work Order.</p>

4.5.1 Incident Categories

Incident categories for the project include compliance level incidents, Occupational Safety and Health Administration (OSHA)-recordable health and safety incidents, vehicle accidents that are related to project traffic closures, and public complaints.

Compliance Level Incidents

The Project Owner and County are responsible for evaluating compliance and addressing any inadequacies throughout implementation of the MMRP. Compliance incidents will be documented by assigning one of three compliance levels and associated terms. If all project requirements are observed being followed adequately, then the project will be at an acceptable compliance level and no further actions are required. A description of compliance levels that will be used for the project and examples of compliance level incidents are listed in Table 4-1.

When documenting compliance level incidents, the reporting party shall assign an initial compliance level that appropriately represents the severity of the incident based on factors including, but not limited to, the following:

- Scope of the deviation or violation
- Risk of impact to resources
- Actual impact to resources
- Number of repeated incidents
- How the incident could have been prevented

The need to change initially reported compliance levels may arise if the incident level was over or under-reported. The County PM shall make final determinations regarding the appropriate compliance level for each incident as needed, and the County Monitoring Team shall maintain a record of all incidents for the project that will be analyzed in the County Post-Construction and Final Monitoring Reports. In addition to the levels of compliance described in Table 4-1, the County may note events or observations that, if left unaddressed, could have the potential to affect compliance and become a compliance incident. The County typically will inform the Project Owner Compliance Personnel of such observations in the field. If such events or observations continue to occur following County's field notification to the Project Owner Compliance Personnel, and corrective action is not taken within the stated period, the County may issue a Project Memorandum (written warning) or Non-Compliance Report (NCR). A non-compliant event regarding environmental resources may involve other agencies, in which case, the County EM will:

- Confirm that the Project Owner has informed the applicable resource agency when non-compliant actions have the potential to harm an environmental resource or species (outside the reporting process associated with incidental takes as permitted by the resource agency).
- If timely notification is not made by the Project Owner, the County EM will contact the applicable resource agency.

If permit or resources issues are involved, the County and/or resource agencies may order work stoppages and the development of strategies for successful resource/species protection, consistent with the applicable permit or mitigation measure.

Health and Safety Incidents

The Project Owner's and the County's most important responsibility is maintaining safe working conditions and protecting the public, including workers, from exposure to hazards related to the project. Accordingly, the Project Owner will self-report health and safety incidents. Specific types of health and safety incidents to be reported are described below:

- A potential violation that poses a significant safety threat to the public and/or staff, contractors, or subcontractors.
- Any instance of fraud, sabotage, falsification of records and/or any other instances of deception by the Project Owner's personnel, contractors, or subcontractors that caused or could have caused a potential violation, regardless of the outcome.
- Incidents that (a) result in fatality or personal injury rising to the level of in-patient hospitalization and attributable or allegedly attributable to utility owned facilities; or (b) are the subject of significant public attention or media coverage and are attributable or allegedly attributable to Project Owner-owned facilities; (c) involve damage to property of the Project Owner or others estimated to exceed \$20,000 that are attributable or allegedly attributable to Project Owner-owned facilities.

The Project Owner CPM will notify the County PM of these types of health and safety incidents within one business day of learning about the incident and provide an incident report with the Compliance Report for the project unless additional time is needed and the County agrees to an extension for submitting the final incident report. The Project Owner also will notify the County about traffic accidents within construction traffic control areas. In addition to the incidents described above, the County may request that the Project Owner report on other health and safety incidents that do not fall into one of the above-listed categories if the County determines that such reporting is necessary to ensure construction is completed in a safe manner. A report of a self-identified potential violation must include information about whether the potential violation has been corrected. If the potential violation has not been corrected before the Compliance Report is submitted, then the self-report must include a plan and schedule for correction. The self-identification and reporting requirement is separate from and independent of any existing reporting requirement(s) and does not relieve the Project Owner of its existing responsibility to correct such violations and safety-related conditions as soon as feasible. Health and safety incidents will not reflect negatively on the Project Owner's environmental compliance record unless a specific project requirement or plan requirement was violated.

Public Complaints

The public may take issue with one or more aspects of the project. The Project Owner will maintain a Project Information Line during construction and will assign a dedicated Public Liaison to the project that will be responsible for tracking and handling public complaints. Public complaints may be submitted formally to the Project Owner or the County through email or the

Project Information Line. Members of the public that have questions, concerns, or complaints on the project will be directed to the Project Owner Public Affairs Manager and Project Information Line, and contact information will be supplied as requested. Complainants who approach field personnel will be referred to the Project Information Line to formally submit their complaint. The Project Owner shall work with the County on best practices for handling public complaints that are received. The Public Liaison will respond to public complaints within 24 hours upon receipt. The County shall notify the Project Owner of public complaints received by the County to facilitate the Project Owner's timely response to these complaints and the Project Owner will add these to the electronic complaint log. The Project Owner shall make every reasonable effort to work with members of the public and correct actions leading to complaints, as feasible. The Project Owner also shall provide monthly summaries of the public complaints and how each complaint was addressed. The County PM will coordinate with the Project Owner CPM on the adequacy of corrective actions or additional measures to be implemented, as needed. Public complaints will not reflect negatively on the Project Owner's environmental compliance record unless a specific project requirement or plan requirement was violated.

4.5.2 Identifying Incidents

The Project Owner FS, SMs, FMs, and County EMs are primarily responsible for identifying and initially reporting incidents during inspection of the project site; however, compliance incidents also may be observed by other personnel in the field or during review of project reports. The County Monitoring Team also may identify compliance incidents through review of the Project Owner's compliance reporting. The Project Owner shall make every attempt to self-report any compliance incidents that occur.

4.5.3 Notification

The Project Owner and the County should notify one another of compliance incidents within one business day of the initial observation so compliance can be adequately addressed. Response procedures do not need to be finalized when initial notification is provided. Jurisdictional agencies also may require notification if incidents are documented that relate to their jurisdiction over the project. The Project Owner CPM or designee shall make all such notifications to each jurisdictional agency and will provide copies to the County of official notifications and submittals provided to other agencies or advise the County of notifications that were made to other agencies, as necessary. If the County believes additional notifications are required, the County may direct the Project Owner to provide those notifications or make those notifications in coordination with the Project Owner Compliance Personnel.

4.5.4 Stop Work Orders

When it is safe to do so, any Project Owner Compliance Personnel or the County Monitoring Team has the authority to issue Stop Work Orders to temporarily halt or redirect project activities if a sensitive resource is put in undue risk beyond previously authorized levels. In addition, the County Monitoring Team also may stop or redirect work if unauthorized project activities are observed, such as use of work area that has not been approved or is significant compliance risks remain

unresolved. The County PM will make any final determinations regarding Stop Work Orders for the project.

4.6 Project Changes

At various times throughout project construction (following approval of final design plans), changes to the project requirements may be needed to facilitate construction or provide more effective protection of resources. When changes are necessary for specific field situations, the Project Owner and the County, in consultation with the applicable resource agencies, will work together to find solutions that avoid conflicts with adopted mitigation measures.

4.6.1 Minor Project Refinements

The County PM, along with the County Monitoring Team, will ensure that any process, to consider minor project changes that may be necessary due to final engineering or variances or deviations from the procedures identified under the monitoring program, is consistent with CEQA requirements.

- No project changes will be approved by the County PM if they:
 - would be located outside of the geographic boundary of the project study area,
 - create new or substantially more severe significant impacts, or
 - conflict with any mitigation measure or applicable law or policy.
- Minor project changes are strictly limited to changes that:
 - will not trigger other permit requirements unless the appropriate agency has approved the change, and
 - clearly and strictly comply with the intent of the mitigation measure or applicable law or policy.

This determination is ministerial, and shall be made by the County PM. The Project Owner must seek any other minor project changes by petition for minor modification of the use permit in accordance with S.C.C 17.92.025. Requests for staff approval of a minor project change must be made in writing and should include the following:

- A detailed description of the proposed minor changes, including an explanation of why the refinements are necessary, and a reference to the approved documents.
- Photos, maps, GIS data, and other supporting documentation illustrating the difference between the existing conditions in the area, the approved project, and the proposed minor changes.
- The potential impacts of the proposed minor changes, including a discussion of each environmental issue area that could be affected by the minor changes with accompanying verification that there will be no substantial increase in the severity of any previously identified significant impacts to resources affected by the project and no new significant impacts, after application of previously adopted mitigation.

- Whether the minor changes conflict with any applicant proposed measures or mitigation measures.
- Whether the minor changes conflict with any applicable guideline, ordinance, code, rule, regulation, order, decision, statute or policy.
- Water/wetland/storm water related resource information if the minor changes would result in any additional land disturbance, road distance or width, changes to jurisdictional delineation of waters, or changes to water protection best management practices.
- Date of expected construction at the minor changes site area.

The County PM may request additional information or a site visit in order to process the request. Possible examples of changes that may be approved by staff after final engineering include, but are not limited to:

- Adjusting the alignment of a project within the study area that was used in the EIR to avoid unanticipated impacts related to cultural artifacts, buried utility infrastructure, hazardous and toxic substances, and other land use impacts including effects on homeowners, so long as the adjustment does not create a new significant impact or a substantial increase in the severity of a previously identified significant impact.
- Adjusting the alignment of a project within the study area that was used in the original environmental analysis to avoid or adapt to conditions on the ground that vary from the conditions that existed at the time of the original environmental analysis, so long as the adjustment does not create a new significant impact or a substantial increase in the severity of a previously identified significant impact.

IMPORTANT: To initiate a project minor changes request, the Project Owner will prepare the appropriate supporting documentation and submit by email (electronic copy) to the County PM with a copy to the County Monitoring Manager. As soon as reasonably possible, the County Monitoring Team will review the request to ensure that all of the information required to process the minor project change is included, and then forward the request to the County PM for review and approval. The County PM may request a site visit from the County CPM, or may request additional information to process the request. In some cases, project minor changes may require approval by jurisdictional agencies as well. All approved minor change requests will be tracked in tabular format in the Compliance Reports.

Should a project change require a PFM, supplemental environmental review under CEQA may be required.

4.6.2 Temporary Extra Work Space

For the purposes of this MMRP, Temporary Extra Work Space (TEWS) is defined as a preexisting work space (i.e., no site preparation is required) that would be used by the Project Owner during construction for a period of up to 60 days, and that was not specifically identified and evaluated during the CEQA process. Anything required to be utilized for a period longer than 60 days will require a minor project change approval.

In the event that the Project Owner determines a need for a construction TEWS, it must submit such a request to the County, consistent with the communication protocol. The Project Owner will not be permitted to use a TEWS prior to receiving written authorization from the County. If appropriate, the Project Owner also will send a copy of the TEWS to affected jurisdictional agencies.

The Project Owner must demonstrate that:

- 1) The TEWS is located in a disturbed (void of vegetation) area with no sensitive resources or land uses onsite or within proximity of the proposed work space such that they may be significantly impacted by the work,
- 2) No ground-disturbing activities or site improvements will occur,
- 3) The Project Owner has permission of the applicable landowner to use the work space, and
- 4) Use of the TEWS will not result in any significant environmental impacts.

Following is a list of the specific information that the Project Owner would be required to submit with its TEWS request:

- Date of request
- Location of the TEWS (detailed description, including maps if required)
- Property owner of TEWS
- An explanation of the need for the TEWS
- An analysis that demonstrates no new significant impacts will result from use of the TEWS including: compaction contributing to runoff rates or other stormwater/watershed effects; observed existing impacts to the site, such as old oil spills or other potentially hazardous or polluting substances; abandoned vehicles, equipment, or other materials; or other sensitive resources.
- Biological surveys (prior to construction)
- Cultural resource survey if appropriate (if site is not paved)
- Duration and dates of expected use of the TEWS
- Details of the expected condition of the site after use

4.7 Compliance Tracking

Compliance with mitigation requirements will be tracked by the County. Important project procedures, such as formal requests and approvals, as well as incidents, also will be tracked throughout the project for record keeping and post-project analysis.

The County will track other important information for the project record as part of the County-prepared Monthly Monitoring Summary Report, including NTP requests and approvals, resolutions to important compliance risks that require follow-up, and documented incidents.

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CHAPTER 5

Records Management

Detailed regular reports would be prepared and submitted by the County environmental compliance monitoring team. These would include detailed information on construction activities, compliance activities observed by the Environmental Monitors and others documented by the Project Owner, any issues and their resolution, and photographs of relevant activities and conditions.

. Construction is not allowed to start in a particular area until the required pre-construction surveys and flagging/staking are completed per the MMRP, and the County environmental monitor has validated compliance. The Project Owner is to provide the County with written regular and annual reports of the project, which shall include progress of construction, resulting impacts, mitigation implemented, and all other noteworthy elements of the project. Regular status reports will be filed and used by the County Monitoring Manager to prepare a final environmental compliance report following the completion of construction and decommissioning. The final report will provide an overview of construction and a discussion of environmental compliance and lessons learned.

The public is allowed access to records and reports used to track the monitoring program. Monitoring records and reports will be made available by the County for public inspection on request, consistent with critical infrastructure requirements and requirements to protect cultural resources. .

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CHAPTER 6

Mitigation Monitoring Program Tables

6.1 Tracking Tables

Exhibit E presents the mitigation measures included in the Final EIR. The mitigation measures deemed applicable to implementation of a phase of the project will be presented in each RFNTP for County approval. The County will use expanded versions of the mitigation measure tables in the MMRP to assess those measures in an approved RFNTP to accurately track the status of mitigation measures during the pre-construction planning, construction monitoring, post-construction monitoring, and operation and maintenance sequences of the project. During construction, a copy of the mitigation measure table with measures to be implemented for an approved RFNTP during construction will be maintained by the Project Owner CPM, and all supervisory staff working on the project should be familiar with its contents. In addition, copies of all applicable plans compiled prior to construction as a result of the pre-construction measures shall also be kept on-site and all supervisory staff working on the project should be familiar with their contents.

6.2 Effectiveness Review

The County may conduct a comprehensive review of conditions which are not effectively mitigating impacts at any time it deems appropriate, including as a result of the Dispute Resolution procedure outlined in Section 4.2. If in review the County determines that any conditions are not adequately mitigating significant environmental impacts caused by the project, then the County in coordination with the jurisdictional agency(ies) may impose additional reasonable conditions to effectively mitigate these impacts.

6.3 Mitigation Measures

The mitigation measures in the MMRP constitute the project's environmental requirements and will be used to determine compliance with the MMRP. The tables (separated by environmental issue area) provided with each RFNTP and approved by the County will indicate the applicable resource of concern, the measure to be implemented, the monitoring requirement, and when the measure is to be implemented. As stated above, applicable mitigation measures in tables provided with each RFNTP will be sorted and divided into pre-construction measures, measures to be implemented during construction, and post-construction mitigation measures.

During construction, a copy of the mitigation measure tables with measures to be implemented during construction, as well as all applicable plans, should be kept with each construction crew,

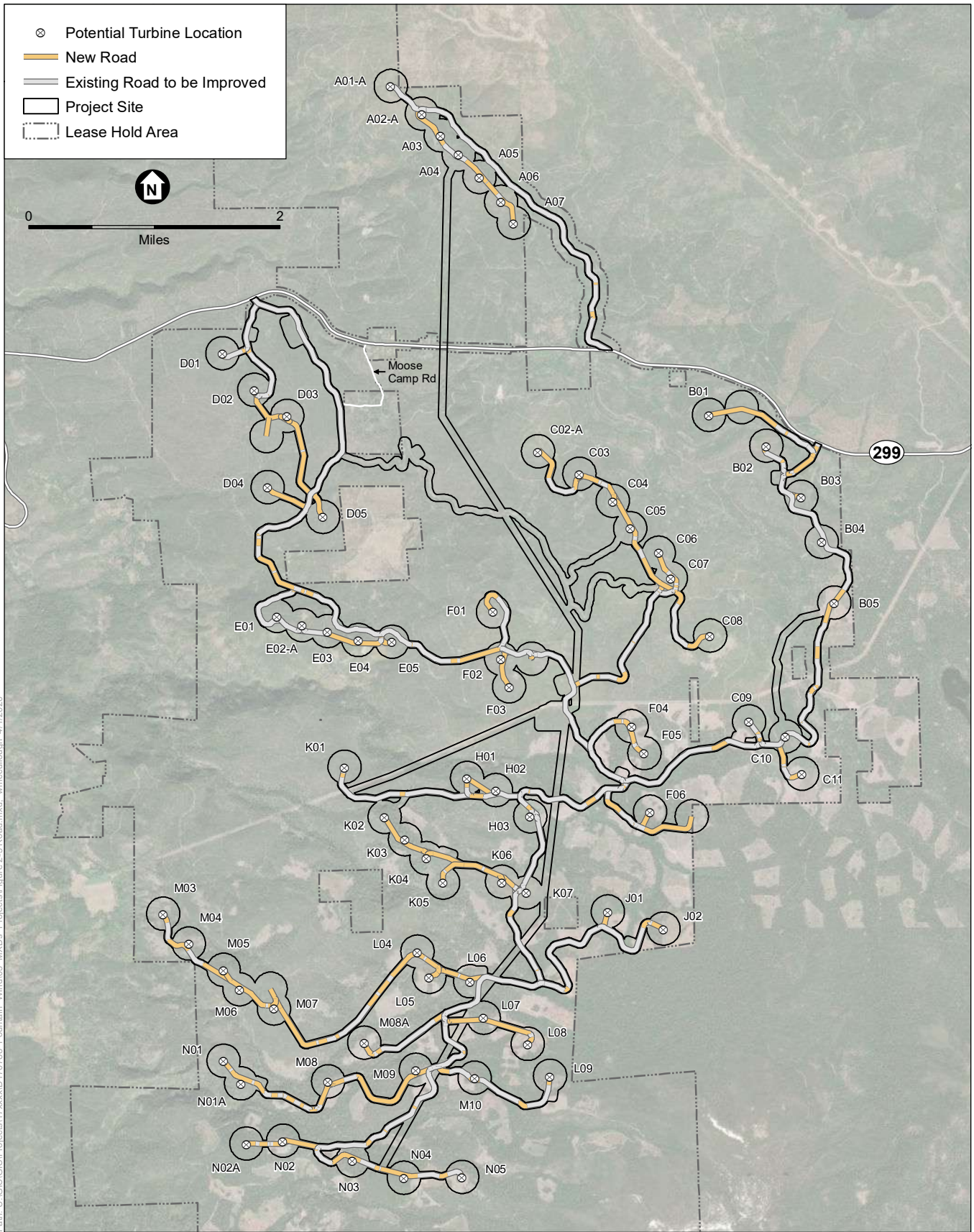
stored in a laptop, tablet, or binder, and all supervisory staff working on the project should be familiar with its contents. In addition, copies of all applicable plans compiled prior to construction as a result of the pre-construction measures shall also be kept with each crew, stored in a laptop, tablet, or binder, and all supervisory staff working on the project should be familiar with their contents. Each RFNTP will include a summary of the timing requirements for each applicable mitigation measure.

Certain mitigation measures require project-wide plans and other documents applicable to each of the project components. These plans, as available, will be presented in **Exhibit F**.

Exhibit A

EIR Figures (as referenced in this document)

Insert Figure: Project Site



Fountain Wind Project

Figure 2-5
Road Network

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Exhibit B

Fountain Wind Project Roles and Responsibilities Organizational Chart

[Fountain Wind Project Roles and Responsibilities Organizational Chart to be provided in Final MMRP]

Exhibit C

Project Owner Field Monitors and Contact Information

[Project Owner Field Monitors and Contact Information to be provided in Final MMRP]

Exhibit D

List of Permitting Agencies

The following list of permitting agencies and approvals previously was provided as Draft EIR **Table 2-8, Summary of Permits and Approvals**. It is being provided here for informational purposes and will be updated as appropriate in the Final MMRP.

**TABLE D-1
PERMITTING AGENCIES AND APPROVALS**

Agency	Permit/Approval
Federal	
Federal Aviation Administration (FAA)	Notice of Proposed Construction or Alteration; Determination of No Hazard.*
U.S. Army Corps of Engineers (USACE)	Clean Water Act, Section 404 Nationwide Permit if jurisdictional waters of the U.S. could be affected by construction or operation of the Project.
U.S. Fish and Wildlife Service (USFWS)	Section 7 or Section 10 permits may be required if project results in take of a species listed under the federal Endangered Species Act (FESA).
State	
California Department of Forestry & Fire Protection (CAL FIRE)	Application for timberland conversion (Pub. Res. Code §4621 et seq.); approval of a timber harvesting plan (Pub. Res. Code §4582).
State Water Resources Control Board and/or Regional Water Quality Control Board (SWRCB and/or RWQCB)	Construction Stormwater General Permit; Notice of Intent to Comply with Section 402 of the Clean Water Act, SWPPP and SPCC Plan; Industrial Stormwater General Permit; Approval of O&M SWPPP and SPCC Plan. Section 401 certification if USACE determines jurisdictional waters of the U.S. would require a Clean Water Act Section 404 permit.
California Department of Fish and Wildlife (CDFW)	Streambed Alteration Agreement (Fish & Game Code §1600 et seq.); permit authorization if "take" of endangered, threatened, or candidate species could result incidental to an otherwise lawful activity (Fish & Game Code §2081).
California Department of Transportation	Oversize load permit(s) and variances for loads with a width over 15 feet and/or length over 135 feet. Encroachment Permit for utility line crossing state right-of-way.*
California Highway Patrol	Notification of Transportation of Oversize/Overweight Loads.*
California Public Utilities Commission	Approval of construction of switching station for transfer to PG&E (i.e., General Order 131-D).
Local	
Shasta County Air Quality Management District	Authority to Construct and/or Permit to Operate as needed.
Shasta County	Use Permit.
Shasta County Department of Resource Management, Environmental Health Division	Hazardous Materials Business Plan, septic system permit, well permit.*
Shasta County Building Division	Building and grading permits.*
Shasta County Hazardous Materials Program, CUPA	Hazardous Materials Business Plan and Permit for handling hazardous materials above threshold quantities (includes hazardous waste management).*
Shasta County, Public Works Department	Encroachment Permit.*

NOTE: * Typically processed as ministerial permits

Exhibit E

Applicant Proposed Measures and Project Mitigation Measures

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**TABLE G-1
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
Aesthetics					
Impact 3.2-1: The Project would, unless mitigated, have a substantial adverse effect on a scenic vista or substantially degrade the character or visual quality of views from publicly accessible vantage points.	<p>Mitigation Measure 3.2-1: Project Design to Reduce Aesthetic Impacts at KOP 1</p> <p>When finalizing the design for the Project, the Applicant shall site turbines to avoid placing turbines within the viewshed of KOP 1, or to reduce the visibility of turbines from KOP 1. For example, if the turbines were to be moved further downslope they would be less visible, from KOP 1. When submitting site plans to the County of Shasta to be approved, the Applicant shall demonstrate to the County that the impacts from KOP 1 have been avoided or reduced. The turbines shall be painted in accordance with manufacturer's and Federal Aviation Administration marking requirements. Commercial messages and symbols shall not be used on turbine structures. When the site plans are presented to the County for approval, the Applicant also shall present the type of turbine selected to the County so that the County may ensure that no commercial messages are used on the turbines.</p>	<p>Applicant to submit site and building plans that demonstrate compliance to the Shasta County Department of Resource Management (County) and to provide written verification that no commercial messaging is shown on the turbines.</p> <p>County to review site and building plans for compliance prior to construction and conduct on-site monitoring during construction to ensure measures are properly implemented.</p>	<p>Submit plans at least 60 days prior to construction at that site.</p> <p>Note: Construction may not commence prior to Shasta County approval and issuance of a building permit(s).</p> <p>Implement approved plans during construction</p>	<p>Final site design reduces or avoids impacts at KOP 1, that the selected turbine is painted in accordance with FAA requirement, and that no commercial messages are used.</p>	<p>Shasta County</p>
Air Quality					
Impact 3.3-1: Construction, decommissioning, and site reclamation activities would generate pollutant emissions that could conflict or obstruct implementation of the applicable air quality plan.	<p>Mitigation Measure 3.3-1a: Tier 4 Final Emission Standards for Off-road Construction Equipment.</p> <p>The Applicant (and/or its construction contractor[s]) shall require that all diesel-fueled off-road construction equipment of more than 50 horsepower used at the Project Site during construction, decommissioning, and/or reclamation activities meet USEPA Tier 4 Final emission standards. A compliance log shall be maintained by the Applicant and made available to the Shasta County Department of Resource Management upon request.</p>	<p>Applicant to prepare and submit initial log prior to construction or first building permit field inspection and thereafter to maintain compliance log and make it available to the County upon request.</p> <p>County to review compliance log and perform on-site monitoring to ensure compliance.</p>	<p>Compliance log to be maintained and Tier 4 Final emissions standards enforced throughout construction, decommissioning, and/or reclamation activities</p>	<p>All diesel fuel off-road construction equipment of more than 50 horsepower used at the Project Site during construction, decommissioning, and/or reclamation activities meets USEPA Tier 4 final emission standards.</p>	<p>Shasta County</p>
	<p>Mitigation Measure 3.3-1b: Idling Restrictions and Fuel Use.</p> <p>To ensure that idling time for on road vehicles with a gross vehicular weight rating of 10,000 pounds or greater does not exceed the five-minute limit established in Section 2485 of Title 13 California Code of Regulations, and that idling time for off-road engines does not exceed the five-minute limit established in Title 13 California Code of Regulations Section 2449(d)(3), the Applicant and/or its construction contractor(s) shall prepare and implement a written idling policy and distribute it to all equipment operators. Clear signage of these requirements shall be provided for construction workers at all access points to construction areas.</p> <p>The Applicant shall use CARB-certified alternative fueled (compressed natural gas [CNG], liquid propane gas [LPG], electric motors, or other CARB certified off-road technologies) engines in construction equipment where feasible.</p>	<p>Applicant to provide County with written idling policy, and documentation (date) that policy has been distributed to all equipment operators.</p> <p>Applicant to provide documentation demonstrating use of alternative fuels, or that use of alternative fuels are infeasible.</p> <p>County to conduct on-site monitoring to ensure compliance</p>	<p>Preparation and distribution of idling policy at least 30 days prior to construction.</p> <p>Implement policy and mitigation measure as defined throughout construction, decommissioning, and/or reclamation activities</p>	<p>Compliance with all components of the required idling policy and mitigation measure as defined.</p>	<p>Shasta County</p>
Impact 3.3-2b: Construction, decommissioning, and site reclamation activities would generate NO _x emissions that could result in a cumulatively considerable net increase of ozone, for which the Project region is non-attainment of State ambient air quality standards.	<p>Mitigation Measure 3.3-2b: Implement Mitigation Measures 3.3-1a (Tier 4 Final Emission Standards for Off-road Construction Equipment) and 3.3-1b (Idling Restrictions and Fuel Use).</p>	<p>See above</p>	<p>See above</p>	<p>See above</p>	<p>See above</p>
Impact 3.3-2c: Construction, decommissioning, and site reclamation activities would generate PM ₁₀ emissions that would result in a cumulatively considerable net increase of PM ₁₀ , which the Project region is non-attainment of State ambient air quality standards.	<p>Mitigation Measure 3.3-2c: Fugitive Dust Controls.</p> <p>The following AQMD Standard Mitigation Measures for fugitive dust shall be implemented during the construction, decommissioning, and reclamation phases by the Applicant and/or its contractor(s):</p> <ul style="list-style-type: none"> Options to open burning of vegetative material on the Project Site shall be used by the Applicant unless otherwise deemed infeasible by the AQMD. Examples of suitable options are chipping, mulching, and conversion to biomass fuel. 	<p>County to conduct on-site monitoring during construction, decommissioning, and reclamation phases to ensure the AQMD Standard Mitigation Measures are properly implemented.</p>	<p>Implement the AQMD Standard Mitigation Measures during the construction, decommissioning, and reclamation phases.</p>	<p>Compliance with all components of the identified AQMD Standard Mitigation Measures to reduce emissions of fugitive dust.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<ul style="list-style-type: none"> • The Applicant shall be responsible for ensuring that all adequate dust control measures are implemented in a timely and effective manner during all phases of Project development and construction. • All material excavated, stockpiled, or graded should be sufficiently watered to prevent fugitive dust from leaving property boundaries and causing a public nuisance or a violation of an ambient air standard. Watering should occur at least twice daily with complete site coverage, preferably in the mid-morning and after work is completed each day. • All areas (including unpaved roads) with vehicle traffic should be watered periodically or have dust palliatives applied for stabilization of dust emissions. Use of dust palliatives (e.g., dust suppressant or dust control binder) shall not occur in any location where transmission to a waterway or sensitive habitat could occur, such as within 100 feet of a wetland or body of water. • All onsite vehicles should be limited to a speed of 15 miles per hour on unpaved roads. • All land clearing, grading, earth moving, and excavation activities on the Project Site shall be suspended when winds are expected to exceed 20 miles per hour. • All inactive portions of the development site should be seeded and watered until suitable grass cover is established. • The Applicant shall be responsible for applying (according to manufacturer 's specifications) nontoxic soil stabilizers to all inactive construction areas (previously graded areas that remain inactive for 96 hours) in accordance with the Shasta County Grading Ordinance. • All trucks hauling dirt, sand, soil, or other loose material should be covered or should maintain at least 2 feet of freeboard (i.e., minimum vertical distance between top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114. This provision shall be enforced by local law enforcement agencies. • All material transported off site shall be either sufficiently watered or securely covered to prevent a public nuisance. • During initial grading, earth moving, or site preparation, the Applicant shall be required to construct a paved (or dust palliative-treated) apron, at least 100 feet in length, onto the Project Site from the adjacent paved Highway 299. • Paved streets adjacent to the development site should be swept or washed at the end of each day to remove excessive accumulations of silt and/or mud that may have accumulated as a result of activities on the development site. • Adjacent paved streets shall be swept at the end of each day if substantial volumes of soil materials have been carried onto adjacent public paved roads from the Project Site. • Wheel washers shall be installed where project vehicles and/or equipment enter and/or exit onto paved streets from unpaved roads. Vehicles and/or equipment shall be washed prior to each trip. • Prior to final occupancy, the applicant shall reestablish ground cover on the construction site through seeding and watering in accordance with the Shasta County Grading Ordinance. 				
Biological Resources					
<p>Impact 3.4-1: Construction of the Project could, unless mitigated, cause a significant impact to special- status plant species.</p>	<p>Mitigation Measure 3.4-1: Avoid and Minimize Construction Impacts on Special-Status Plants</p> <p>To prevent adverse impacts to special- status plants, the Project Applicant shall implement the following measures if construction activities are to occur in the area not yet surveyed, or if vegetation removal and ground disturbing construction activities have not been completed within 5 years of the completion of rare plant surveys:</p> <p>a) A qualified biologist shall conduct a pre-construction survey for special-status plant species with the potential to occur within the unsurveyed area, or other areas if 5 years have passed since completion of rare plant surveys; or as otherwise approved by CDFW. The survey shall follow the procedures outlined in the CDFW (2018) rare plant survey protocol.</p> <p>b) If special-status plants are found to be present, plant populations shall be avoided using an appropriate (e.g., 20-foot or greater) buffer for the subject population during construction. The</p>	<p>County to review and approve Applicant biologist and ecologist qualifications.</p> <p>Applicant to provide County with pre-construction survey results and restoration and mitigation plan if applicable.</p> <p>County to conduct on-site monitoring during construction to ensure avoidance measures and/or the restoration and</p>	<p>Survey results and the restoration and mitigation plan (if applicable) shall be provided to the County and CDFW at least 14 days in advance of the initiation of construction activities within the area(s) surveyed.</p> <p>Avoidance measures and/or restoration and mitigation plan shall be implemented during construction.</p>	<p>Avoidance measures and/or the restoration and mitigation plan are properly implemented so that permanent and temporary impacts on special-status plants and their required constituent habitat elements are avoided and minimized.</p> <p>Compensation, by restoration or credits, is provided as approved by all required resource and local agencies if avoidance is not possible.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<p>buffer shall be staked, roped, and/or fenced off so as to be readily identifiable by construction workers as a buffer area to be avoided.</p> <p>c) Where special-status plant avoidance is not feasible, the applicant shall mitigate for the loss of plants through the implementation of the following: A qualified ecologist shall develop and implement a restoration and mitigation plan according to CDFW guidelines and in coordination with CDFW. At a minimum, the plan shall include collection of reproductive structures or plant salvage from affected plants, a full description of microhabitat conditions necessary for each affected species, seed germination requirements, restoration techniques for temporarily disturbed occurrences, assessments of potential transplant and enhancement sites, success and performance criteria (e.g., greater than 1:1 replacement of individual plants or the population area), include a minimum 3-year monitoring program, as well as measures to ensure long-term sustainability such as weeding or supplemental water.</p> <p>d) Survey results shall be provided to the Shasta County Department of Resource Management, Planning Division and CDFW at least 14 days in advance of the initiation of construction activities within the area(s) surveyed. The Shasta County Department of Resource Management, Planning Division shall, in coordination with CDFW, determine whether or not the survey(s) were conducted in accordance with CDFW plant survey protocol and measures b) and/or c) are to be implemented. Construction shall not begin in the surveyed area until the Shasta County Department of Resource Management, Planning Division has confirmed that the survey(s) were conducted in accordance with the protocol and, if necessary, that measures 3.4-1b and/or 3.4-1c have been implemented.</p>	<p>mitigation plan are properly implemented.</p>			
<p>Impact 3.4-2: Construction of the Project could, unless mitigated, cause a significant impact on nesting bald and golden eagles.</p>	<p>Mitigation Measure 3.4-2: Avoid and minimize construction-related impacts to nesting eagles (January 1 to August 31).</p> <p>To prevent adverse impacts to nesting eagles, the Project Applicant shall implement the following measures if construction activities are to occur during the nesting season:</p> <p>a) Conduct terrestrial preconstruction eagle nesting surveys to determine whether eagles are actively nesting or maintaining territories within 2 miles of the Project construction boundary. Surveys will be designed and carried out by a qualified biologist with experience in the natural history and nesting behavior of eagles, following USFWS and CDFW guidelines and protocols. Terrestrial surveys will include all suitable eagle nesting habitat within a 2-mile buffer surrounding the Project construction boundary, as accessible, and subsequent observations at known nests to assess territory occupancy and nesting activity by adult eagles.</p> <p>b) Results of preconstruction eagle nesting surveys will be reported to the Shasta County Department of Resource Management, Planning Division, USFWS, and CDFW by August 31 of the year in which the survey was conducted. The Shasta County Department of Resource Management, Planning Division shall, in coordination with resource agencies, determine whether or not the survey(s) were conducted in accordance with USFWS and CDFW guidelines and protocols. Construction shall not begin in the surveyed area until the Shasta County Department of Resource Management, Planning Division has confirmed that the survey(s) were conducted in accordance with appropriate protocols and, if necessary, that measure 3.4-2c has been implemented.</p> <p>c) If surveys document active eagle nests within the 2-mile survey buffer, the Project Applicant will coordinate with the County, USFWS and CDFW to define and implement recommended protective measures. Typical measures for working within 2 miles of eagle nests are to establish construction buffers (e.g., with flagging, rope, signage, or other similar barriers) in accordance with USFWS recommendations (National Bald Eagle Management Guidelines, 2007; Golden Eagle, 2013) for specific activities (e.g., vehicular traffic, construction work, etc.); and may be adjusted downward based on site-specific conditions following coordination with the USFWS Migratory Bird Program and CDFW.</p>	<p>County to review and approve Applicant biologist qualifications.</p> <p>Applicant to provide survey results to the County, USFWS, and CDFW.</p> <p>County to confirm the survey(s) were conducted in accordance with appropriate protocols and measures.</p> <p>County to conduct on-site monitoring during construction to ensure any recommended measures and buffer areas are properly implemented.</p>	<p>Applicant to provide survey results to the County, USFWS, and CDFW prior to construction by August 31 of the year in which the survey was conducted.</p> <p>Any avoidance measures shall be implemented by the Applicant during construction.</p>	<p>Preconstruction surveys demonstrate absence of active nests or all recommended measures and buffer areas are properly implemented in coordination with County, USFWS, and CDFW and construction-related impacts to nesting eagles are avoided and minimized.</p>	<p>Shasta County</p>
<p>Impact 3.4-3: Operation of the Project could, unless mitigated, result in significant adverse impacts to or direct mortality of bald and golden eagles.</p>	<p>Mitigation Measure 3.4-3a: Avoid and minimize operational impacts on avian and bat species.</p> <p>The Project Applicant will avoid and minimize operational impacts on eagles, other raptors, other birds and bats by enacting the following mitigation measures:</p> <p>a) Discourage raptor use of immediate vicinity of wind turbine generators by taking steps to reduce prey species' numbers, such as minimizing creation of prey habitat such as rock piles.</p>	<p>Applicant to provide County with evidence it has coordinated with USFWS, its staff responsible for operations have been trained in reporting avian and bat wildlife fatalities, and a protocol for staff has been developed.</p>	<p>Documentation of evidence to be provided to County prior to the start of operations.</p> <p>Measure to be implemented as defined throughout operations.</p>	<p>APLIC and Land Based Wind Energy Guidelines and Applicant's protocol for reporting fatalities are followed operational impacts on avian and bat species are minimized.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	b) Follow APLIC (2006, 2012) guidance for all energized Project components to minimize electrocution or collision with transmission lines. c) Follow Land-Based Wind Energy Guidelines (USFWS, 2012) for turbine design and best management practices that help to minimize eagle mortality and eliminate potential raptor perches; avoid guy wires on meteorological towers where possible. d) Prior to Project construction, the Applicant will coordinate with USFWS regarding potential impacts to eagles and demonstrate the Projects' compliance with the Bald and Golden Eagle Protection Act and the USFWS Eagle Conservation Plan Guidance (2013). e) All Project staff responsible for operations will be trained in reporting avian and bat wildlife fatalities, including those of bald and golden eagles, other raptors, and bats encountered during turbine maintenance and other regular activities on site. A protocol for project staff will be developed in coordination with CDFW and the County for appropriate handling and reporting fatalities.				
	<p>Mitigation Measure 3.4-3b: Monitor avian and bat mortality rates during project operations.</p> <p>To accurately assess operational Project impacts on all avian species, including bald eagle, golden eagle, other raptors, and bats, and ensure the effectiveness of avian protection measures, the applicant will design and implement a post-construction mortality monitoring (PCMM) study. The PCMM will include the following elements:</p> <p>a) The duration of PCMM monitoring to assess ongoing impacts of operation will include post-construction monitoring for all avian species, with particular attention to eagles, other raptors, and bats. The PCMM monitoring will commence immediately following the beginning of commercial operation and continue for three years following the incorporation of all planned turbines and power generation.</p> <p>b) PCMM studies will be designed to meet a minimum overall detection probability for bald and golden eagles of 30 percent during the first three years of full operation. Additionally, the PCMM will include a mandatory incidental monitoring and reporting program for other raptors and bats for the life of the Project.</p> <p>c) Searcher efficiency trials and carcass persistence trials using large raptor carcasses or an appropriate, commercially available proxy will be implemented and used to calculate overall detection probabilities of eagle carcasses. Carcasses of other birds and bats will also be collected and reported.</p> <p>d) Monitoring will occur over all seasons of occupancy for the species being monitored.</p> <p>e) Applicant will provide an annual report of PCMM findings to the Shasta County Department of Resource Management, Planning Division, CDFW, and the USFWS. If a bald or golden eagle, other raptors or bats are detected during PCMM, and detections indicate <u>exceedance</u> of the following thresholds, the Applicant and relevant agencies will develop a plan to mitigate the impacts per the <i>Land-Based Wind Energy Guidelines</i> (USFWS, 2012).¹</p> <ul style="list-style-type: none"> • Bald eagle – injury or mortality to one or more bald eagles in any given year. • Golden eagle – injury or mortality to one or more golden eagles in any given year. • Other raptors – injury or mortality to six or more individuals of any sensitive raptor species in any given year, except northern goshawk. For northern goshawk, injury or mortality to two or more individuals in any given year. • Other special-status birds – documented injury or mortality that suggests a population-level impact to other special status bird species. • Bats – injury or mortality to three or more bats of a single species identified as Western Bat Working Group (WBWG) high priority (red) species (i.e., pallid bat, Townsend's bat, spotted bat, western red bat, or western mastiff bat) in any given year; or injury or mortality to six or 	Applicant to monitor avian and bat mortality and provide annual reports of PCMM findings to the County, CDFW, and the USFWS.	Applicant will conduct monitoring and develop associated annual reports during operations for three years following the incorporation of all planned turbines and power generation.	Operational project impacts on all avian species are accurately assessed. County and resource agency recommended minimization measures are implemented.	Shasta County

¹ Injury and mortality thresholds for bald eagle, golden eagle, and California spotted owl stated above were developed based on the low expectation for species mortality during project operations. For northern goshawk, this species is not listed and no California wind farm mortality has been identified in California. Because this species is unlikely to be encountered, a threshold of two individuals was adopted. For other raptors, the adopted threshold was based on the regional populations of Coopers hawk, sharp-shinned hawk, and northern harrier, which are fairly healthy. For most raptor species, mortality to migrating individuals is not anticipated. This assessment was based on focused baseline surveys of the Project area, monitoring findings from the Hatchet Ridge Wind Project, and coordination with raptor experts. For uncommon bat species with low population numbers, four WBWG high priority species are considered to have a low to moderate potential to occur and a threshold of three individuals per species was adopted based their rarity and low encounter numbers at the Hatchet Ridge Wind Project. For two WBWG medium species, a threshold of six bats was adopted based on the absence of habitat in the Project area (western mastiff bat) or the greater abundance of the species (hoary bat).

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<p>more bats of a single species identified as WBWG medium priority (yellow) species (i.e., hoary bat or silver-haired bat), in any given year.</p> <p>If thresholds are exceeded, the Applicant will implement minimization measures recommended by the County, CDFW, and/or USFWS to limit mortality. Precise measures that are applicable will depend upon the type and magnitude of the identified impact based on the behavior of the impacted species and Project-specific attributes that may be leading to increased mortality, and may include one or more of the following operational modifications, or other identified adaptive actions:</p> <ul style="list-style-type: none"> • "Informed curtailment" of turbine speed (rapid shutdown of turbines when raptors are seen approaching. • Curtailment of operations during high risk periods for bats (low wind nights) or birds. • The use of low-intensity ultraviolet light and ultrasonic deterrence systems to deter birds and bats from approaching (AWWI, 2018). • The use of bird-specific visual cues, such as marking/painting, UV coating, reflectors, minimal turbine lighting, visual deterrence or lasers. • Habitat alterations that affect habitat quality or food availability on- or off-site, or alter availability of breeding habitat or roosts. • Removing select turbines that are problematic for target species. • Altering turbine speed to reduce mortality. • Temporary shutdown of select turbines during sensitive periods. • Operating select turbines only during daylight hours. • Acoustic cues such as acoustic harassment or an audible deterrence. • Other sensory cues, such as electromagnetism or olfactory cues. 				
<p>Impact 3.4-3: Operation of the Project could, unless mitigated, result in significant adverse impacts to or direct mortality of bald and golden eagles.</p>	<p>Mitigation Measure 3.4-3c: Offset operational impacts on eagles through compensatory mitigation, if necessary.</p> <p>a) If bald or golden eagle mortality occurs as a result of the Project, the Project Applicant will fund the retrofitting of electrical utility poles that pose a high risk of electrocution to eagles. Applicant will coordinate with the USFWS and follow the most current USFWS Eagle Conservation Plan Guidance (USFWS, 2013). If in coordination with USFWS an alternative compensatory mitigation measure is preferred to pole retrofitting, such alternative compensation measure (e.g., pole reframing or funding carcass removal from roadways) may be implemented.</p> <p>b) Any compensatory mitigation must occur within the same Eagle Management Unit as the Project, and must be completed within one year of any instance of documented take.</p> <p>c) Applicant will provide a report to the Shasta County Planning Department and USFWS documenting implementation of measures taken within one year of detection of the eagle take.</p> <p>d) Annually and after collection of 3 years of post-construction monitoring data, the Shasta County Department of Resource Management's will review the data and, in coordination with the Project Applicant, USFWS and CDFW, will determine which, if any, specific wind turbines generate disproportionately high levels of avian (including eagle) mortalities (based on evidence of statistically significant higher levels of mortality relative to other Project wind turbines). If specific wind turbines are found to result in disproportionately high avian mortalities based on collected data, the Project Applicant shall coordinate with the County to evaluate any feasible measures that can be implemented to reduce or avoid mortalities at those specific wind turbines. Furthermore, if mortalities involve eagles, the County will consider additional measures, including but not limited to carcass removal from roadways or funding for the acquisition of conservation easements on habitat that would provide nesting, foraging, or roosting bald and/or golden eagle habitat.</p> <p>e) If unauthorized take of a federal or state listed raptor occurs during project operation, the Project Applicant shall immediately notify the appropriate agency (CDFW and/or USFWS) by phone.</p>	<p>Applicant to provide County with documentation of coordination with USFWS and CDFW for implementation of any compensatory mitigation.</p> <p>Applicant to provide report to County and USFWS documenting implementation of measures.</p> <p>County to monitor and verify compensatory mitigation is implemented during construction as defined.</p> <p>In coordination with the Project Applicant, USFWS and CDFW, the County will determine which, if any, specific wind turbines generate disproportionately high levels of avian (including eagle) mortalities and evaluate any feasible measures to reduce or avoid mortalities.</p>	<p>Any compensatory mitigation and associated report must be completed within one year of any instance of a documented take.</p> <p>The County to annually review data, after collection of 3 years post-construction monitoring, to determine if any specific wind turbines generate disproportionately high levels of avian mortalities.</p>	<p>Implementation of appropriate compensatory mitigation measures to offset impacts if eagle mortality occurs.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
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Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	The Applicant shall submit a written finding to the appropriate agency and the County within two calendar days that describes the date, time, location, species and, if possible, cause of unauthorized take. The Applicant shall notify the County within three calendar days of the receipt of any USFWS and/or CDFW required or recommended actions resulting from the unauthorized take, including whether an incidental take permit and/or additional requirements is deemed necessary by either agency.				
Impact 3.4-4: Decommissioning of the Project could result in adverse impacts to nesting bald and golden eagles.	Mitigation Measure 3.4-4: Implement Mitigation Measure 3.4-2; Avoid and minimize construction-related impacts to nesting eagles (January 1 to August 31).	See Mitigation Measure 3.4-2			
Impact 3.4-6: Construction and decommissioning of the Project could result in adverse impacts on nesting raptors (other than goshawks).	Mitigation Measure 3.4-6: Avoid and minimize construction-related impacts on nesting raptors (February 1 to September 15) a) Where feasible, tree and vegetation removal activities shall be avoided in potential raptor nesting habitat during the avian nesting season (February 1 to September 15) during each year of construction. b) If construction is planned to occur during the avian nesting season from February 1 to September 15, pre-construction raptor nesting surveys shall be conducted by a qualified biologist to identify raptor nests within 500 feet of proposed work areas. A qualified biologist is defined as a person who is knowledgeable in the distribution, habitat, life history, and identification of Northern California birds, is familiar with the survey methods to locate and survey for active nests within the Project Site and can acquire any permits needed to survey for federally listed or state-listed birds, if such permits become necessary. c) Results of preconstruction raptor surveys will be reported to the Shasta County Department of Resource Management, Planning Division, USFWS, and CDFW by August 31 of the year in which the survey was conducted. The Shasta County Department of Resource Management, Planning Division shall, in coordination with resource agencies, determine whether or not the survey(s) were conducted in accordance with appropriate protocols and measure 3.4-6d is to be implemented. Construction shall not begin in the surveyed area until the Shasta County Department of Resource Management, Planning Division has confirmed that the survey(s) were conducted in accordance with appropriate protocols and, if necessary, that measure 3.4-6d has been implemented. d) If active raptor nests are found during pre-construction surveys, a 500-foot exclusion zone shall be established around the nest in which no work would be allowed until the young have successfully fledged or nesting activity has ceased. The determination of fledging or cessation of nesting shall be made by a qualified biologist with experience in monitoring raptor nests. Any sign of nest disturbances shall be reported to the Shasta County Department of Resource Management, CDFW and USFWS. In coordination with CDFW and/or USFWS, the County may modify the size of the exclusion zone depending on the raptor species and type of construction activity occurring near the nest. e) Specific to any proposed blasting activities, a qualified biologist will evaluate areas within 1,320 feet (1/4-mile) of blasting sites to identify nesting raptors. If active raptor nests are found during pre-construction surveys nest buffer distance that is applied during blasting activities may range from approximately 500 feet to 1,320 feet, depending upon the time of year, sensitivity of any identified nesting species, and site-specific conditions such as topography or dense vegetation. The determination of fledging or cessation of nesting shall be made by a qualified biologist with experience in monitoring raptor nests. Any sign of nest disturbances shall be reported to the Shasta County Department of Resource Management, CDFW and USFWS. In coordination with CDFW and/or USFWS, the County may modify the size of the exclusion zone depending on the raptor species and type of construction activity occurring near the nest.	County to review and approve Applicant biologist qualifications. Applicant to provide survey results to the County, USFWS, and CDFW. County to confirm the survey(s) were conducted in accordance with appropriate protocols and measures. County to conduct on-site monitoring during construction and decommissioning to ensure any recommended measures and buffer areas are properly implemented.	Applicant to provide survey results to the County, USFWS, and CDFW prior to construction by August 31 of the year in which the survey was conducted. Any avoidance measures shall be implemented by the Applicant during construction.	Preconstruction surveys demonstrate absence of active nests; or all recommended measures and buffer areas are properly implemented in coordination with County; USFWS, and CDFW and construction-related impacts to goshawks are avoided and minimized.	Shasta County
Impact 3.4-7: Construction and decommissioning of the Project could result in adverse impacts to nesting goshawks.	Mitigation Measure 3.4-7a: Implement Mitigation Measure 3.4-6 (Avoid and minimize construction-related impacts on nesting raptors (February 1 to September 15))	See Mitigation Measure 3.4-6			
	Mitigation Measure 3.4-7b: Avoid and minimize construction-related impacts to nesting goshawks (March 1 to August 15) a) Prior to any disturbance of forest habitats that fit the nesting criteria of northern goshawks, the Applicant will conduct acoustic surveys for northern goshawk during their nesting season (March 1–August 31) following methods outlined by Woodbridge and Hargis (2006) to assure species is not nesting or using the territory for nesting. If nesting goshawks are found, the nests would be avoided with a suitable buffer distance (minimum 500 feet) in coordination with CDFW.	Applicant to provide survey results to the County, USFWS, and CDFW. County to confirm the survey(s) were conducted in accordance with appropriate protocols.	Applicant to provide survey results to the County, USFWS, and CDFW at least 30 days prior to any disturbance of forest habitats that fit the nesting criteria of northern goshawks.	Preconstruction surveys demonstrate absence of active nests; or buffer areas are properly implemented in coordination with County, USFWS, and CDFW; and construction-related impacts to nesting raptors (other than goshawks) are avoided and minimized.	Shasta County

**TABLE G-1 (CONTINUED)
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Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	b) Results of preconstruction goshawk surveys will be reported to the Shasta County Department of Resource Management, Planning Division and CDFW. The Shasta County Department of Resource Management, Planning Division shall, in coordination with resource agencies, determine whether or not the survey(s) were conducted in accordance with appropriate protocols. Construction shall not begin in the surveyed area until the Shasta County Department of Resource Management, Planning Division has confirmed that the survey(s) were conducted in accordance with appropriate protocols.	County to conduct on-site monitoring during construction and decommissioning to ensure any buffer areas are properly implemented.	Any buffer areas shall be implemented by the Applicant throughout construction.		
Impact 3.4-8: Operation of the Project could result in mortality and injury to raptors (including goshawk), as a result of collisions with wind turbines and electrical transmission lines.	Mitigation Measure 3.4-8: Implement Mitigation Measure 3.4-3b (Monitor avian and bat mortality rates during project operations).	See Mitigation Measure 3.4-3b			
Impact 3.4-12: Site preparation and construction, operations and maintenance, and decommissioning and site restoration of the Project could result in habitat loss and water quality impacts on Pit roach, special-status amphibians and western pond turtle.	Mitigation Measure 3.4-12: Implement Mitigation Measure 3.12-1 (Water Quality Best Management Practices during Activities in and near Water) and Mitigation Measure 3.4-16b (Avoid or Minimize Impacts to Wetlands and Other Waters).	See Mitigation Measures 3.12-1 and 3.4-16b			
Impact 3.4-13: Operation and maintenance of the Project could result in direct mortality and injury to bats, including special-status species.	Mitigation Measure 3.4-13: Implement Mitigation Measure 3.4-3b (Monitor Avian and Bat Mortality Rates During Project Operations).	See Mitigation Measure 3.4-3b			
Impact 3.4-15: Site preparation and construction, operations and maintenance, and decommissioning and site restoration of the Project would result in adverse impacts to riparian habitat or other sensitive vegetation communities.	Mitigation Measure 3.4-15a: Implement Mitigation Measure 3.4-16b (Avoid and Minimize Impacts to Wetland and Other Waters).	See Mitigation Measure 3.4-16b			
	<p>Mitigation Measure 3.4-15b: Compensate for Impacts to Rocky Mountain Maple Riparian Scrub Habitat.</p> <p>The Applicant shall implement a Reclamation and Revegetation Plan that includes detailed measures for the compensation, restoration, and/or enhancement of Rocky Mountain Maple Riparian Scrub Habitat on a per-acre basis. The standard for mitigation shall be no net loss. If restoration is selected as a method of compensatory mitigation, the Applicant shall prepare a riparian mitigation and monitoring plan as part of the Project's reclamation and revegetation plan and shall submit it to the County for review, determination of adequacy, and approval. Mitigation ratios shall be at a1:1 level.</p> <p>The Rocky Mountain Maple Riparian Scrub Habitat mitigation and monitoring plan shall be written by a qualified biologist and shall include the following elements, at minimum:</p> <ul style="list-style-type: none"> a) goals of the plan and permitting requirements satisfied; b) planned riparian habitat restoration activities and locations, including the restoration of temporarily affected riparian habitat to preconstruction conditions; c) monitoring and reporting requirements (including monitoring period), and criteria to measure mitigation success; d) the plant species to be used, container sizes, and/or seeding rates, and a planting/seeding schedule; e) a schematic drawing depicting the location of plantings within mitigation areas; f) a description of the irrigation methodology, if needed; g) invasive weed control measures within Rocky Mountain Maple Riparian Scrub Habitat mitigation areas; h) a detailed monitoring program, to initially include quarterly or more frequent visits tapering to annual maintenance; d) remedial measures, should mitigation efforts fall short of established targets. j) identification of the party responsible for meeting the success criteria and providing for long-term conservation of the mitigation site. <p>The Applicant shall consult with CDFW about the adequacy of the plan and may consult with other agencies, if the plan aims to fulfill multiple permitting and mitigation requirements.</p>	<p>County to review and approve Applicant biologist qualifications.</p> <p>Applicant to provide County with documentation of coordination with CDFW regarding the adequacy of the Reclamation and Revegetation Plan.</p> <p>County to review, determine adequacy, approve the Reclamation and Revegetation plan, and monitor implementation as defined during construction, operations and maintenance, and decommissioning.</p>	<p>Applicant to develop Reclamation and Revegetation Plan at least 30 days prior to construction activities; and implement the Plan during construction as defined.</p>	<p>Implementation of appropriate compensatory mitigation measures to offset impacts Rocky Mountain Maple Riparian Scrub Habit.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
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Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
<p>Impact 3.4-16: Site preparation and construction, operations and maintenance, and decommissioning and site restoration of the Project could result in adverse impacts to wetlands and other waters.</p>	<p>Mitigation Measure 3.4-16a: Implement Mitigation Measure 3.12-1 (Water Quality Best Management Practices during Activities in and near Water)</p> <p>Mitigation Measure 3.4-16b: Avoid and Minimize Impacts to Wetlands and Other Waters.</p> <p>The Applicant will avoid and minimize impacts on wetlands and other waters by implementing the following mitigation measures:</p> <ul style="list-style-type: none"> a) Avoid direct and indirect impacts to wetlands and streams in final siting and design to the maximum extent feasible. b) Design stream crossings, including culverts, to pass a 100-year event without increasing average flow velocity or bed/bank scour potential. c) Monitor stream crossings in burn areas seasonally and maintain culverts and drains, since burned areas may experience sediment and debris loads that could result in clogged or blocked culverts. d) The Applicant shall also submit a site plan showing all aquatic resources and appropriate regulatory buffers or setbacks to Shasta County. e) The Applicant shall assign a qualified wetland scientist to mark all aquatic resources associated with the final project site plan. Temporary high visibility fencing, and signage may be used to help protect these areas. The qualified wetland scientist would also identify corresponding setbacks to aquatic resources, as required by Project permits. f) On a continuous basis, a qualified wetland scientist or biological monitor shall be assigned to visually inspect aquatic resources, and surrounding areas, for evidence of hydrologic loss in aquatic areas. g) Develop a Spill Prevention, Control, and Countermeasures (SPCC) Plan to minimize adverse impacts to wetlands. 	<p>See Mitigation Measure 3.12-1</p> <p>County to review and approve Applicant wetland scientist qualifications.</p> <p>Applicant to submittal site plan showing aquatic resources and regulatory buffers or setbacks to Shasta County.</p> <p>Applicant to develop SPCC Plan and provide to County.</p> <p>County to monitor implementation as defined during construction.</p>	<p>Applicant to development plan at least 30 days prior to the start of construction and implement plan during construction, operations and maintenance, and decommissioning.</p>	<p>Documented avoidance and minimization of impacts to wetlands. Submission of site plan showing aquatic resources and regulatory buffers to County, and evidence of monitoring of wetland impacts by qualified biologist.</p> <p>Successful implementation of SPCC plan.</p>	<p>Shasta County</p>
<p>Impact 3.16 cont.</p>	<p>Mitigation Measure 3.4-16c: Compensate for Impacts to Wetlands and other Waters.</p> <p>The Applicant shall implement a Reclamation and Revegetation Plan that includes detailed measures for the compensation, restoration, and/or enhancement of wetlands and other waters on a wetland type per-acre basis. The standard for mitigation shall be no net loss. If restoration is selected as a method of compensatory mitigation, the Applicant shall prepare a wetland mitigation and monitoring plan as part of the Project's reclamation and revegetation plan and shall submit it to the County for review, determination of adequacy, and approval. Mitigation ratios shall be calculated following USACE wetland mitigation procedures and shall be based on the actual impact acreage of final design per as-built construction drawings and the results of the preconstruction surveys. After review and approval by the County and pertinent regulatory agencies, mitigation shall be carried out at a ratio no less than 1:1, or another ratio approved by the appropriate jurisdictional agency, whichever is higher.</p> <p>The wetland mitigation and monitoring plan shall be written by a qualified biologist and shall include the following elements, at minimum:</p> <ul style="list-style-type: none"> a) goals of the plan and permitting requirements satisfied; b) wetland restoration activities and locations, including the restoration of temporarily affected wetlands and other waters to preconstruction conditions; c) monitoring and reporting requirements (including monitoring period), and criteria to measure mitigation success; and d) remedial measures, should mitigation efforts fall short of established targets. e) Restored wetland and riparian habitat shall achieve at least 85 percent survival of individual plants and show progress toward achieving 100 percent of the required mitigation acreage following 5 years of site monitoring and maintenance. <p>The Applicant shall consult with USACE and CDFW about the adequacy of the plan and may consult with other agencies, if the plan aims to fulfill multiple permitting and mitigation requirements.</p>	<p>Applicant to provide County with documentation of consultation with USACE and CDFW.</p> <p>Applicant to provide Reclamation and Revegetation Plan and wetland mitigation and monitoring plan (if applicable) to County for review of adequacy and approval.</p> <p>If a wetland mitigation and monitoring plan will be prepared, County to review and approve biologist author qualifications.</p> <p>County to monitor implementation of plans as defined during construction.</p>	<p>Applicant to provide Reclamation and Revegetation Plan and wetland mitigation and monitoring plan (if applicable) to County for review and approval at least 30 days prior to the commencement of construction activities.</p> <p>Applicant to implement plan(s) during construction, operations and maintenance, and decommissioning.</p>	<p>Implementation of appropriate compensatory mitigation measures to offset impacts to wetlands and other waters.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
Communications Interference					
Impact 3.5-1: The Project could cause intermittent interference to or freezing of television reception at some residences in the service area of the stations that broadcast over the Project Site.	<p>Mitigation Measure 3.5-1: Correct or mitigate conflicts with television signals.</p> <p>Prior to issuance of a construction permit from the County, the Applicant shall send notifications, via certified mail or other means that documents receipt, to all property owners of residences within the service area of the stations that broadcast over the Project site notifying them of the potential for interference with “over-the-air” television signals received by antenna. The notification shall provide contact information and instructions so that recipients may file a complaint with the Shasta County Department of Resource Management, Planning Division if interference occurs.</p> <p>In the event that the County receives a verified complaint regarding television broadcast interference that is attributable to this Project, the Applicant will resolve receiver interference through coordination with property owners. Verification shall include a letter or report from a qualified third party supporting the conclusion that interference is attributable to the Project. The Applicant shall not be required to provide qualifying residents with better reception than they had before the construction and operation of the Project.</p>	<p>Applicant to provide County with notice to property owners and documentation of property owner receipt.</p> <p>In the event of a verified complaint, Applicant to provide County with evidence of resolution coordination with property owners including verification from third party.</p>	<p>Notifications to be mailed prior to issuance of a construction permit from the County.</p> <p>Applicant to resolve issues with property owners during operation.</p>	<p>Property owners are made aware of the potential for interference with “over-the-air” television signals received by antenna.</p> <p>Verified property owner complaints are resolved by Applicant.</p>	Shasta County
Impact 3.5-3: None of the Project turbines would obstruct or prevent known point-to-point microwave relay station transmissions; however, interference could occur due to turbine location adjustments or currently unknown transmissions.	<p>Mitigation Measure 3.5-3: Correct or mitigate conflicts with microwave signals.</p> <p>Prior to issuance of a construction permit from the County, the Applicant shall notify, via certified mail or other means that documents receipt, all owners of frequency-based communication stations and towers within 2 miles of the Project Site. The notification shall provide the locations of all turbines and shall provide contact information and instructions so that recipients may file a complaint with the Shasta County Department of Resource Management, Planning Division if interference occurs.</p> <p>In the event that the County receives a verified complaint regarding microwave transmission interference that is attributable to this Project, the Applicant will resolve receiver interference through coordination with owners of frequency-based communication stations and towers. Verification shall include a letter or report from a qualified third party supporting the conclusion that interference is attributable to the Project. Possible actions include the Applicant being responsible for installation of high-performance antennas at nearby microwave sites, if required. The Applicant shall not be required to provide qualifying owners with better signals than they had before the construction and operation of the Project.</p>	<p>Applicant to provide County notification to property owners and documentation of receipt.</p> <p>In the event of a verified complaint, Applicant to provide County with evidence of coordination with owners of frequency-based communication stations and towers including verification from third party.</p>	<p>Notifications to be mailed prior to issuance of a construction permit from the County.</p> <p>Applicant to resolve issues with property owners during operation.</p>	<p>Owners of frequency-based communication stations and towers within 2 miles of the Project Site are notified of the project.</p> <p>Verified owner complaints are resolved by Applicant.</p>	Shasta County
Cultural and Tribal Cultural Resources					
Impact 3.6-1: The Project could cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5.	<p>Mitigation Measure 3.6-1a: Archaeological Monitoring Plan.</p> <p>Prior to receiving a County grading permit for the Project, the Applicant shall retain a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior’s Professional Qualification Standards for Archeology, to prepare an archaeological resources monitoring plan. Monitoring shall be required for all subsurface excavation work within 500 feet of the recorded boundaries of known archaeological resources. The plan shall include the following:</p> <ol style="list-style-type: none"> 1. Training program for all construction personnel involved in ground disturbance; 2. Person responsible for conducting monitoring activities, including Native American monitors; 3. Person responsible for overseeing and directing the monitors; 4. How the monitoring shall be conducted and the required format and content of monitoring reports; 5. Physical monitoring boundaries (e.g., 500-foot radius of a known archaeological resource) and maps; 6. Schedule for submittal of monitoring reports and person responsible for review and approval of monitoring reports; 7. Protocol for notifications in case of encountering of archaeological resources, as well as methods of evaluating the encountered resources (e.g., identification, evaluation, arrangements); 8. Methods to ensure security of archaeological resources; 	<p>County to review and approve Applicant archaeologist qualifications.</p> <p>Applicant to provide County with archaeological resources monitoring plan.</p> <p>County to monitor implementation of plan as defined during construction.</p>	<p>Archaeological resources monitoring plan to be prepared prior to receiving a County grading permit for the project.</p> <p>Plan to be implemented during construction.</p>	<p>Compliance with all components of the approved plan and protection of archaeologically sensitive areas.</p>	Shasta County

**TABLE G-1 (CONTINUED)
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Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<p>9. Protocol for notifying local authorities (i.e. Sheriff, Police) should site looting and other illegal activities occur during construction.</p> <p>If archaeological materials are encountered, all soil disturbing activities within 100 feet shall cease until the materials are evaluated. The archaeological monitor shall immediately notify the County of the encountered archaeological materials. The monitor shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological materials, present the findings of this assessment to the County. During the course of the monitoring, the archaeologist may adjust the frequency—from continuous to intermittent—of the monitoring based on the conditions and professional judgment regarding the potential to impact resources.</p>				
	<p>Mitigation Measure 3.6-1b: Inadvertent Discovery Protocol.</p> <p>If prehistoric or historic-era archaeological resources are encountered during Project implementation, either during monitoring or otherwise, all construction activities within 100 feet shall cease, and a qualified archaeologist, defined as an archaeologist meeting the U.S. Secretary of the Interior's Professional Qualification Standards for Archeology, shall inspect the find within 24 hours of discovery and notify the County of their initial assessment.</p> <p>If the County determines, based on recommendations from a qualified archaeologist and a Native American representative (if the resource is Native American related), that the resource may qualify as a historical resource or unique archaeological resource (as defined in CEQA Guidelines Section 15064.5) or a tribal cultural resource (as defined in PRC Section 21080.3), the resource shall be avoided if feasible. Consistent with Section 15126.4(b)(3), this may be accomplished through planning construction to avoid the resource; incorporating the resource within open space; capping and covering the resource; or deeding the site into a permanent conservation easement.</p> <p>If avoidance is not feasible, the County shall consult with appropriate Native American tribes (if the resource is Native American-related), and other appropriate interested parties to determine treatment measures to avoid, minimize, or mitigate any potential impacts to the resource pursuant to PRC Section 21083.2, and CEQA Guidelines Section 15126.4. This shall include documentation of the resource and may include data recovery (according to PRC Section 21083.2), if deemed appropriate, or other actions such as treating the resource with culturally appropriate dignity and protecting the cultural character and integrity of the resource (according to PRC Section 21084.3).</p>	<p>County to review and approve Applicant archaeologist qualifications.</p> <p>In the event of discovery, the Applicant shall engage in consultation with County and Native American tribes to determine treatment measures to avoid, minimize, or mitigate any potential impacts.</p> <p>County to conduct on-site monitoring to ensure proper implementation of protocol.</p>	<p>Implemented during construction.</p>	<p>Implementation of construction protocols avoid, minimize, or mitigate impacts to any inadvertently discovered potential prehistoric or historic-era archaeological resources.</p>	<p>Shasta County</p>
<p>Impact 3.6-2: The Project could disturb human remains, including those interred outside of formal cemeteries.</p>	<p>Mitigation Measure 3.6-2: Inadvertent Discovery of Human Remains.</p> <p>In the event human remains are uncovered during ground-disturbing activities (including construction, operations and maintenance, and decommissioning), the Project proponent or its contractor shall immediately halt work within a 100-foot radius, contact the Shasta County Coroner to evaluate the remains within 48 hours, and follow the procedures and protocols pursuant to Section 15064.5(e)(1) of the CEQA Guidelines. Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission (NAHC). The NAHC will then identify the person thought to be the most likely descendent of the deceased Native American. The most likely descendent will make recommendations for means of treating, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98.</p>	<p>In the event of discovery, the Applicant shall contact the coroner and notify the County, and depending on the coroner's findings, shall provide the County with documentation that it consulted with the most likely descendent of the deceased Native American.</p> <p>County to conduct on-site monitoring during construction to ensure proper implementation of the mitigation measure and descendent recommendations.</p>	<p>In the event human remains are uncovered, the Applicant will immediately halt work and contact the Shasta County Coroner to evaluate the remains and contact the County.</p>	<p>Proper treatment of human remains and any associated grave goods, with appropriate dignity, in the event human remains are encountered.</p>	<p>Shasta County</p>
<p>Impact 3.6-3: The Project would cause a substantial adverse change in the significance of a tribal cultural resource.</p>	<p>Mitigation Measure 3.6-3a: Implement Mitigation Measure 3.6-1a: Archaeological Monitoring Plan and Mitigation Measure 3.6-1b: Inadvertent Discovery Protocol</p>	<p>See Mitigation Measure 3.6-1a and 3.6-1b</p>			
	<p>Mitigation Measure 3.6-3b: Coordination with the Pit River Tribe during Project Development.</p> <p>Shasta County and the Applicant will facilitate a preconstruction meeting and field visit with the Pit River Tribe through the Tribe's chairperson and the Pit River Environmental Office to discuss "tribal cultural resources" as defined in Public Resources Code Section 21074 in the Project Site and identify ways to minimize impacts on these locations during construction. The site visit will focus on viewing the location of the Project facilities, describing Project construction and operation activities, and identifying potential cultural significant features.</p>	<p>The County and Applicant will facilitate a pre-construction meeting and field visit with the Pit River Tribe and the Pit River Environmental Office as described in the measure.</p>	<p>Prior to construction.</p>	<p>Coordination with Pit River Tribe and the Pit River Environmental Office regarding project facilities, describing Project construction and operation activities, and identification of potential cultural significant features.</p>	<p>Shasta County</p>
	<p>Mitigation Measure 3.6-3c: Detailed Recordation of Features Considered Culturally Significant to the Pit River Tribe.</p>	<p>The Applicant to provide documentation to the County that it has undertaken an</p>	<p>Prior to construction.</p>	<p>Detailed recordation of any ethnographic location in this manner will create a photographic and written record of the cultural</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
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 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<p>The Applicant shall retain a professional ethnographic consultant to undertake a detailed recordation of any locations considered important to the Pit River Tribe. The recordation will commence prior to construction and will include photographic documentation of pre- and post-construction conditions of any identified culturally sensitive location. The information gathered as a result of field, interview, and research tasks will be compiled into a report that will be transmitted to the Pit River Tribe. Detailed recordation of any ethnographic location in this manner will create a photographic and written record of the cultural resource prior to construction of the Project, resulting in partial compensation for Project impacts.</p>	<p>ethnographic recordation and provide it to Pit River Tribe.</p>		<p>resource, resulting in partial compensation for project impacts.</p>	
	<p>Mitigation Measure 3.6-3d: Cultural Resources Monitoring Program with the Pit River Tribe during Construction.</p> <p>The Applicant shall offer and provide the opportunity for cultural resource monitors from the Pit River Tribe to monitor initial ground disturbing construction activities in areas identified by the Tribe as culturally sensitive. Monitors will have the authority to ensure that discrete sacred sites in the Project Site are avoided or that impacts on such localities are mitigated to the extent feasible, including but not limited to, avoidance or data recovery (as outlined in Mitigation Measure 3.6.1a. Inadvertent Discovery Protocol). The Pit River Environmental Office should coordinate with the appropriate Achumawi bands (Itsatawi and Madesi) to assign monitors.</p> <p>If the offer is accepted, the Applicant shall provide compensation commensurate with market rates based on the qualifications and experience of the cultural monitor(s). Prior to tendering an offer to the Tribe the Applicant shall provide a copy of the offer to the County for review, including but not limited to the proposed number of monitors to be employed, proposed construction schedule/hours during which monitors would be present on site, proposed level(s) of compensation, and other relevant details of the proposed cultural monitoring program.</p>	<p>The Applicant to provide documentation to the County that it has offered and provided the opportunity for cultural resource monitors from the Pit River Tribe, and if amenable to the tribe, has developed an associated Cultural Resources Monitoring Program in consultation with Pit River Tribe.</p> <p>County to conduct on-site monitoring during construction to ensure proper implementation of the Cultural Resources Monitoring Program.</p>	<p>Development of Cultural Resources Monitoring Program prior the commencement of construction.</p> <p>Implementation of the Cultural Resources Monitoring Program during construction.</p>	<p>Ensure that discrete sacred sites in the Project Site are avoided or that impacts on such localities are mitigated to the extent feasible</p>	<p>Shasta County</p>
Hazards and Hazardous Materials					
<p>Impact 3.11-3: During normal operation, equipment failure or an extreme event could lead to turbine failure, resulting in a potential hazard.</p>	<p>Mitigation Measure 3.11-3: Mandatory Setbacks.</p> <p>A minimum wind turbine setback of two times the total tip height shall be maintained from the exterior Project boundaries where the Project Site is adjacent to existing parcels of record that contain an off-site residence.</p>	<p>Applicant to provide County with final site plan.</p> <p>County to review final site plan and conduct on-site monitoring to ensure identified setbacks from adjacent existing parcels that contain a residence are maintained.</p>	<p>Submission of site plan at least 30 days prior to commencement of construction.</p>	<p>Potential hazards associated with equipment or turbine failure are reduced.</p>	<p>Shasta County</p>
<p>Impact 3.11-7: The Project could impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.</p>	<p>Mitigation Measure 3.11-7: Implement the Traffic Management Plan that would be required by Mitigation Measure 3.14-3.</p>	<p>See Mitigation Measure 3.14-3</p>			
Hydrology and Water Quality					
<p>Impact 3.12-1: The Project would, unless mitigated, violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality during construction and decommissioning.</p>	<p>Mitigation Measure 3.12-1: Water Quality Best Management Practices during Activities in and near Water.</p> <p>To avoid and/or minimize potential impacts on water quality (and jurisdictional waters) during construction- and decommissioning-related project activities that would be conducted near (i.e., within 50 feet), in, or over waterways, the project contractor shall implement the following standard construction BMPs to prevent releases of hazardous materials and to avoid other potential environmental impacts:</p> <ol style="list-style-type: none"> 1. In-stream construction shall be scheduled during the summer low-flow season to minimize impacts on aquatic resources. If instream construction takes place during higher flow seasons, the following measures shall be implemented: <ol style="list-style-type: none"> a. Minimize mechanized equipment use below top of bank of streams; b. Perform activities in accordance with all permit conditions and best practices; and c. Have environmental monitors on-site to monitor instream construction to ensure compliance with permit conditions and best practices. 2. All construction material, wastes, debris, sediment, rubbish, trash, etc., shall be removed from the Project Site daily during construction and decommissioning, and thoroughly at the 	<p>County to conduct on-site monitoring during construction and decommissioning to ensure proper implementation of the BMPs as defined.</p>	<p>During construction and decommissioning.</p>	<p>Successful implementation of BMPs to prevent releases of hazardous materials and to avoid other potential environmental impacts.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<p>completion of each of these phases. Debris shall be transported to an authorized upland disposal area.</p> <p>3. Consistent with the Project's Hazardous Materials Business Plan (HMBP) and Spill Prevention Control and Countermeasures Plan (SPCC), construction workers shall receive training prior to construction/decommissioning and protective measures shall be implemented to prevent accidental discharges of oils, gasoline, or other hazardous materials to jurisdictional waters during fueling, cleaning, and maintenance of equipment, as outlined in the Project's HMBP. Equipment used to perform construction work on the Project Site shall be maintained in accordance with manufacturers' protocols, and, except in the case of failure or breakdown, equipment maintenance shall be performed off-site. Crews shall check heavy equipment daily for leaks; if a leak is discovered, it shall be immediately contained and use of the equipment shall be suspended until repaired. The source of the leak shall be identified, material shall be cleaned up, and the cleaning materials shall be collected and properly disposed.</p> <p>4. Vehicles and equipment shall be serviced off-site, or, if on-site service is necessary, in a designated location a minimum distance of 100 feet from drainage channels and other waterways. Fueling locations shall be inspected after fueling to document that no spills have occurred. Any spills shall be cleaned up immediately.</p>				
<p>Impact 3.12-2: Blasting, if it occurs, could substantially degrade groundwater quality.</p>	<p>Mitigation Measure 3.12-2: Best Management Practices for Blasting.</p> <p>All activities related to blasting shall follow Best Management Practices (BMPs) to prevent contamination of groundwater including preparing, reviewing and following an approved blasting plan; proper drilling, explosive handing and loading procedures; observing the entire blasting procedures; evaluating blasting performance; and handling and storage of blasted rock.</p> <p>1) Blasting Plan. Prior to conducting the first blast on the Project Site, the Applicant shall prepare and submit a detailed blasting plan to the Shasta County Department of Resource Management and the Shasta County Sheriff's Department. The blasting plan shall contain a complete description of how explosives will be safely transported and used at the site; evacuation, security and fire prevention procedures; blasting equipment list; and procedures for notification of nearby receptors. The blasting plan shall explain how the Applicant will comply with the requirements of 30 C.F.R. §§816.61 through 816.68 regarding the use of explosives to be consistent with the technical requirements of the statute. Procedures for notification shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> a. At least 30 days before initiation of blasting, the operator shall notify, in writing, all residents or owners of dwellings or other structures located within 0.5-mile of the permit area describing how to request and submit a pre-blasting survey. Notification shall include posting a written notice within the Project Site, and on the County's public website describing how to obtain and submit a pre-blasting survey. b. A resident or owner of a dwelling or structure within 0.5-mile of any part of the permit area may request a pre-blasting survey. This request shall be made, in writing, directly to the operator or to the regulatory authority, who shall promptly notify the operator. The operator shall promptly conduct a pre-blasting survey of the dwelling or structure and promptly prepare a written report of the survey detailing the results. c. The operator shall determine the condition of the dwelling or structure and shall document any pre-blasting damage and other physical factors that could reasonably be affected by the blasting. Structures such as pipelines, cables, transmission lines, and cisterns, wells, and other water systems warrant special attention; however, the assessment of these structures may be limited to surface conditions and other readily available data. d. Prior to finalizing the blasting plan, the Applicant or designated operator shall consult with jurisdictional authorities tasked with protecting waters of the state and implement avoidance and minimization measures, as required by CDFW, USACE, and regional water quality (Section 401) regulatory permits prepared for the Project. A record of consultation and such protective measures shall be included in the blasting plan and/or incorporated by reference. <p>2) Loading practices. The following blast hole loading practices to minimize environmental effects shall be followed:</p> <ul style="list-style-type: none"> a) Drilling logs shall be maintained by the driller and communicated directly to the blaster. The logs shall indicate depths and lengths of voids, cavities, and fault zones or other weak zones encountered as well as groundwater conditions. 	<p>The Applicant shall prepare and submit a detailed blasting plan to the County and Shasta County Sheriff's Department.</p> <p>Prior to finalizing the blasting plan, the Applicant or designated operator shall consult with jurisdictional authorities tasked with protecting waters of the state and implement avoidance and minimization measures to protect regional water quality.</p> <p>Applicant shall provide County with documentation that it notified, in writing, all residents or owners of dwellings or other structures located within 0.5-mile of the permit area.</p> <p>County to conduct on-site monitoring during blasting to ensure proper implementation of the blasting plan.</p>	<p>The blasting plan to be submitted to County and Sheriff Department at least 45 days prior to planned commencement of blasting activities.</p> <p>Notification to residents or owners of dwellings or other structures at least 30 days before initiation of blasting.</p> <p>Implementation of blasting plan during construction.</p>	<p>Development and implementation of the blasting plan to reduce the potential to substantially degrade groundwater quality.</p>	<p>Shasta County</p>

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	b) Explosive products shall be managed on-site so that they are either used in the borehole, returned to the delivery vehicle, or placed in secure containers for off-site disposal. c) Spillage around the borehole shall either be placed in the borehole or cleaned up and returned to an appropriate vehicle for handling or placement in secured containers for off-site disposal. d) Loaded explosives shall be detonated as soon as possible and shall not be left in the blast holes overnight, unless weather or other documented safety concerns reasonably dictate that detonation should be postponed. e) Loading equipment shall be cleaned in an area where wastewater can be properly contained and handled in a manner that prevents release of contaminants to the environment. f) Explosives shall be loaded to maintain good continuity in the column load to promote complete detonation. Industry accepted loading practices for priming, stemming, decking and column rise shall be attended to. 3) Explosive Selection. To reduce the potential for groundwater contamination when explosives are used, explosive products shall be selected that (a) are appropriate for site conditions and safe blast execution, and (b) have the appropriate water resistance for the site conditions present to minimize the potential for hazardous effect of the product upon groundwater. 4) Prevention of Misfires. Appropriate practices shall be developed and implemented to prevent misfires. 5) Blast Rock Pile Management. To reduce the potential for contamination, the interaction of blasted rock piles and stormwater shall be managed to prevent contamination of water supply wells or surface water.				
Impact 3.12-4: The Project would, unless mitigated, substantially increase siltation of waterways or provide substantial additional sources of polluted runoff during construction and decommissioning.	Mitigation Measure 3.12-4: Implement the water quality best management practices during activities in and near water that would be required by Mitigation Measure 3.12-1.	See Mitigation Measure 3.12-1			
Impact 3.12-5: The Project would, unless mitigated, conflict with implementation of the Central Valley Basin Plan.	Mitigation Measure 3.12-5a. Implement the water quality best management practices during activities in and near water that would be required by Mitigation Measure 3.12-1. Mitigation Measure 3.12-5b: Implement the best management practices for blasting that would be required by Mitigation Measure 3.12-2.	See Mitigation Measure 3.12-1 See Mitigation Measure 3.12-2			
Noise and Vibration					
Impact 3.13-2: Construction, decommissioning, and site reclamation of the Project could result in the generation of a substantial temporary increase in ambient noise levels on and near the Project Site in excess of standards established in the Shasta County General Plan or the applicable standards of other agencies.	Mitigation Measure 3.13-2: Noise-Reducing Construction Practices. The Project Applicant shall ensure that the following measures are implemented during construction, decommissioning, and site reclamation activities to avoid and minimize construction noise effects on sensitive receptors: a) Construction vehicle routes shall be located at the most distant point feasible from noise-sensitive receptors. b) All heavy trucks shall be properly maintained and equipped with noise-control (e.g., muffler) devices, in accordance with manufacturers' specifications, at each work site during Project construction, decommissioning, and site reclamation to minimize heavy truck traffic noise effects on sensitive receptors. c) Haul trucks and delivery trucks shall prioritize use of the east access road, if available, over the west access road, and shall avoid use of the west access road during nighttime hours. d) Helicopter use shall be limited to a period of 2 weeks or less such that receptors are not impacted for a substantial period of time. e) Limit construction operations located within 2,500 feet of residences to daytime hours only. f) Residences within 2,000 feet of helicopter activity shall be notified of the timeline of proposed operations at least 2 weeks` prior to line stringing operations. g) Nighttime (10 p.m. to 7 a.m.) helicopter use and blasting shall be prohibited.	County to conduct on-site monitoring during construction, decommissioning, and site reclamation to ensure implementation of noise-reducing construction practices as defined.	During construction, decommissioning, and site reclamation.	Implementation of defined noise-reducing practices to reduce noise levels on and near the Project Site.	Shasta County

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
Impact 3.13-3: Construction, decommissioning, and site reclamation of the Project could generate groundborne vibration.	<p>Mitigation Measure 3.13-3: Charge Weight Limits on Blasting Activities.</p> <p>The Project Applicant shall ensure that blasting contractors restrict charge weight per delay such that a performance standard of less than 0.3 in/sec PPV would result at any structures in the vicinity of the blasting area. This performance standard shall be established as a condition of contract and implemented by a licensed blasting contractor in possession of a Federal Explosives License/Permit, issued by the Bureau of Alcohol, Tobacco, and Firearms.</p>	Applicant to provide documentation to County that performance standard has been established as a condition of contract to be implemented by the licensed blasting contractor.	Documentation provided at least 14 days prior to planned blasting activities. Blasting activities to occur during construction.	Implementation of charge weight limits to reduce the extent of groundborne vibration.	Shasta County
Transportation					
Impact 3.14-3: The Project would, unless mitigated, substantially increase safety hazards.	<p>Mitigation Measure 3.14-3: Traffic Management Plan.</p> <p>Prior to the issuance of construction or building permits and prior to the removal of materials from the Project Site during decommissioning, the Applicant shall:</p> <ol style="list-style-type: none"> 1. Prepare and submit a Traffic Control Plan to Shasta County Public Works Department and the Caltrans offices for District 2, as appropriate, for approval. The Traffic Control Plan must be prepared in accordance with both the Caltrans Manual on Uniform Traffic Control Devices and Work Area Traffic Control Handbook and must include, but not be limited to, the following: <ol style="list-style-type: none"> a. A plan for communicating construction/decommissioning plans with Caltrans, emergency service providers, and residents located in the vicinity of the Project Site. b. An access and circulation plan for use by emergency vehicles when lane closures and/or detours are in effect. If lane closures occur, provide advance notice to local fire departments and sheriff's department to ensure that alternative evacuation and emergency routes are designed to maintain response times. c. Timing of deliveries to/removals from the Project Site of heavy equipment and building materials; d. Directing vehicles, pedestrians, and bicyclists on SR 299 through the construction zone with a flag person; e. Providing detours to route vehicular traffic, bicyclists, and pedestrians around lane or shoulder closures, if they occur; f. Providing adequate parking for construction trucks, equipment, and workers in the designated staging areas within the Project Site; g. Placing temporary signage, lighting, and traffic control devices if required, including, but not limited to, appropriate signage along access routes to indicate the presence of heavy vehicles and construction/decommissioning traffic, and the placement of traffic cones to provide temporary left-turn lanes into Project driveways as needed;² h. Preserving access to existing ingress/egress points for all adjacent property at all times; and, i. Specifying both construction/decommissioning-related vehicle travel and oversize/overweight vehicle haul routes. 2. Obtain all necessary encroachment permits for the work within the road right-of-way or use of oversized/overweight vehicles that will utilize County-maintained roads, which may require California Highway Patrol or a pilot car escort. Copies of the approved traffic plan and issued permits shall be submitted to the Shasta County Public Works Department and Caltrans. 3. Consult with the Shasta County Public Works Department and Caltrans to identify any substantial construction activities on SR 299 that may overlap with construction of the Project (e.g., Caltrans SR 299 resurfacing project from Milepost 60.0 to 67.8). Coordinate with the contractor(s) of any identified project(s) to ensure that overlapping construction activities do not cause unnecessary delays on SR 299 or preclude the ability of large vehicles to access the Project Site. 	<p>The Applicant to submit the Traffic Management Plan to Shasta County Public Works and Caltrans for review and approval.</p> <p>County to conduct on-site monitoring during construction to ensure measures are properly implemented.</p>	<p>Development of Traffic Management Plan prior to issuance of construction permits.</p> <p>Implementation of Traffic Management Plan during construction.</p>	Development and implementation of Traffic Management plan that reduces traffic safety hazards.	Shasta County
Impact 3.14-4: The Project would, unless mitigated, result in inadequate emergency access.	Mitigation Measure 3.14-4: Implement the Traffic Management Plan that would be required by Mitigation Measure 3.14-3 (Traffic Management Plan).	See Mitigation Measure 3.14-3			

² A left-turn lane warrant analysis was conducted for the three Project driveways, which is provided in Appendix H. The analysis found that left-turn lanes would be warranted during Project construction at all three Project driveways during the a.m. peak hour.

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
Wildfire					
Impact 3.16-1: The Project would, unless mitigated, substantially impair an adopted emergency response plan or emergency evacuation plan	<p>Mitigation Measure 3.16-1a: Implement Mitigation Measure 3.14-3 (Traffic Management Plan)</p> <p>Mitigation Measure 3.16-1b: Pre-Construction Coordination with CAL FIRE Prior to construction, the Applicant shall provide GIS files or other maps of the Project layout to CAL FIRE to facilitate aerial fire-fighting planning. The Applicant shall notify CAL FIRE of any changes to the Project layout or any maintenance that would require the use of helicopters or the use of equipment not previously identified on maps provided to CAL FIRE that could present a new, previously unidentified vertical obstacle to aerial firefighting. <u>The Applicant will identify a Project operations point of contact for CAL FIRE to coordinate with in the event aerial fire-fighting operations occur in the vicinity of the Project.</u></p>	See Mitigation Measure 3.14-3	Prior to construction.	Provision of GIS files and of project layout, and notice of any project changes, to CAL FIRE for identification of any new, previously unidentified vertical obstacle(s) to aerial firefighting.	Shasta County
Impact 3.16-2: The Project would, unless mitigated, exacerbate wildfire risks and expose people to pollutant concentrations or a significant risk of loss, injury or death from a wildfire or the uncontrolled spread of a wildfire.	<p>Mitigation Measure 3.16-2a: Fire Safety. The Applicant and/or its contractors shall prepare and implement a Project-specific Fire Prevention Plan (FPP) to prevent an exacerbation of wildfire risk during both the Project construction and operation and maintenance phases. Prior to construction, the Applicant shall contact and consult with the Shasta Trinity Unit of CAL FIRE and the Shasta County Fire Department to determine the appropriate amounts of fire equipment to be carried on the vehicles and appropriate prevention measures to be taken. The Applicant shall submit verification of its consultation with the appropriate fire departments to Shasta County. The Applicant shall submit a draft FPP to the Shasta County Project Manager for approval when the building permit application is submitted. The County shall have an opportunity to make comments on and revisions to the FPP, which the Applicant shall incorporate into a revised FPP for approval. The Applicant shall make the approved FPP available to all construction crew members prior to construction of the Project. The FPP shall list fire safety measures including fire prevention and extinguishment procedures, as well as specific emergency response and evacuation measures that would be followed during emergency situations; examples are listed below. The FPP also shall provide fire-related rules for smoking, storage and parking areas, usage of spark arrestors on construction equipment, and fire-suppression tools and equipment. The FPP shall include or require, but not be limited to, the following:</p> <ul style="list-style-type: none"> • Prior to construction, the Project applicant shall designate primary and alternate Fire Coordinators such that a Fire Coordinator is present at all times during Project construction. The Fire Coordinator shall be responsible for ensuring that crews have sufficient fire suppression equipment, communication equipment, shall lead and coordinate fire patrols, ensure that the required clearances are followed onsite, and ensure that all crew members receive training on the FPP and its components. • For vehicles within control of the contractor, the contractor shall require vehicle drivers to conduct a visual inspection of the vehicle for potential sparking risks prior to operation of the vehicle. This inspection should include, but not be limited to a check of tire pressure and an inspection for chains or other vehicle components that could drag while driving. For subcontractors or vendors where vehicles are not within the control of the contractor, the contractor or Applicant shall develop a standard brochure to send to vendors that shall provide educational materials about fire risks associated with vehicles and shall provide an inspection checklist. • The Applicant and/or its contractors shall have water tanks, water trucks, or portable water backpacks (where space or access for a water truck or water tank is limited) sited/available in the study area for fire protection. • During construction of the Project the Applicant and/or its contractors shall implement ongoing fire patrols during construction hours and for 1 hour after the end of daily construction and hotwork. • All construction crews and inspectors shall be provided with radio and/or cellular telephone access that is operational within the Project Site to allow communications with other vehicles and construction crews. All fires shall be reported immediately upon detection. • Require that all internal combustion engines, stationary and mobile, be equipped with spark arresters in good working order. • Require that light trucks and cars with factory-installed mufflers be used only on roads where the roadway is cleared of vegetation. 	<p>Applicant to submit to the County verification that it has contacted and consulted with the Shasta Trinity Unit of CAL FIRE and the Shasta County Fire Department.</p> <p>Applicant to submit Fire Prevention Plan to County for review, comment, and approval.</p> <p>County to review submittals and conduct on-site monitoring during construction to ensure measures are properly implemented.</p>	<p>Development of the Fire Prevention Plan prior to construction.</p> <p>Submission of the draft Fire Prevention Plan to the Shasta County Project Manager for approval when the building permit application is submitted.</p> <p>Implementation of the Fire Prevention Plan during construction and operation.</p>	Effective implementation would be demonstrated through compliance with all components of the Fire Prevention Plan; if ignition from Project construction activities is promptly reported to the fire department(s) with jurisdiction; and when it is safe to do so, any Project-caused ignition is suppressed immediately.	Shasta County

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<ul style="list-style-type: none"> • Require that equipment parking areas and small stationary engine sites are cleared of all extraneous flammable material. • Include a fire conditions monitoring program to monitor meteorological data during construction and operation. • Include a monitoring and inspection protocol for turbines and electrical infrastructure. • Include protocol for disabling re-closers and de-energizing portions of the electrical collection and transmission systems • Prohibit smoking in wildland areas, with smoking limited to paved areas or areas cleared of all vegetation. • All construction vehicles shall have fire suppression equipment. • The Applicant shall ensure that all construction workers receive training on the implementation of the FPP including how to conduct a fire patrol, proper use of fire-fighting equipment and procedures to be followed in the event of a fire, vegetation clearance and equipment usage requirements, turbine, and electrical equipment inspections. • As construction may occur simultaneously at several locations, each construction site shall be equipped with fire extinguishers and fire-fighting equipment sufficient to extinguish small fires. • The Applicant shall enforce a requirement that construction personnel park any vehicles within roads, road shoulders, graveled areas, and/or cleared areas (i.e., away from dry vegetation) wherever such surfaces are present at the construction site. • The Applicant and its contractor shall cease all non-emergency work during Red Flag Warning events. • The Applicant shall coordinate the finalization of road improvements (i.e. frequency of grading and vegetation clearance) with CAL FIRE and other emergency responders to ensure that sufficient ingress and egress exists onsite. • Prior to the initiation of construction, a designated inspector from the County shall inspect the Project Site to ensure that sufficient fire suppression equipment is present onsite, that the required vegetation clearances have been cleared, that a crew member training program has been created, that construction vehicles are equipped with fire suppression equipment, that spark arrestors are installed on construction equipment, that a fire conditions monitoring program has been developed, that a monitoring and inspection protocol has been developed, that a disabling and re-closing protocol has been developed, and that CAL FIRE was appropriately consulted regarding road improvements and ingress and egress. • During construction, the Applicant shall submit a weekly FPP compliance report that demonstrates the following: fire patrols have been conducted following construction, any new construction workers have received training on the implementation of the FPP, that non-emergency work is being halted appropriately during Red Flag Warnings, and that sufficient fire suppression equipment is present onsite. <p>Successful implementation of Mitigation Measure 3.16-2a (Fire Safety) would be demonstrated by the development of an FPP in consultation with local fire authorities which is documented and submitted to Shasta County for review, any revisions, and final approval. Additionally, successful implementation of Mitigation Measure 3.16-2a would require that the Applicant and its contractor comply with all components of the FPP, that ignition from Project construction activities is promptly reported to the fire department(s) with jurisdiction, and that when it is safe to do so, any Project-caused ignition is suppressed immediately.</p>				
Impact 3.16 cont.	<p>Mitigation Measure 3.16-2b: Nacelle Fire Risk Reduction.</p> <p>Turbines shall be equipped with fire detection and prevention technology compatible with the manufacturer’s operating requirements and will be maintained in good working order throughout the life of the Project. Turbines with electrical equipment in the nacelle shall have safety devices to detect electrical arc and smoke that use the best available technology for fire detection and suppression within turbines. The turbine design shall include the following components:</p> <ol style="list-style-type: none"> 1. Early fire detection and warning systems; 2. Automatic switch-off and complete disconnection from the power supply system; and 	<p>Applicant to provide County with verification that turbine design includes fire detection and protection technology.</p> <p>County to conduct on-site monitoring to ensure measures are properly implemented.</p>	<p>Verification of turbine design prior to construction.</p> <p>Implementation of turbine design during construction and operation.</p>	<p>Inclusion of fire detection and prevention technology in turbines to be maintained in good working order throughout the life of the Project</p>	Shasta County

**TABLE G-1 (CONTINUED)
 APPLICANT PROPOSED MEASURES AND PROJECT MITIGATION MEASURES
 MITIGATION MONITORING AND REPORTING PROGRAM**

Environmental Impact	Mitigation Measure/APM	Monitoring / Reporting Action	Implementation Schedule	Effectiveness Criteria	Verification Approval Party
	<p>3. Automatic fire extinguishing systems in the nacelle of each wind turbine.</p> <p>4. Additionally, turbines shall include lightning protection equipment such as grounding equipment, and a lightning measurement system. Lightning grounding systems shall consider site-specific conditions such as soil type and conductivity.</p> <p>Should any of these devices report an out-of-range condition, the device shall command a shutdown of the turbine and disengage it from the electrical collection system, and send a notice through the SCADA. The entire turbine shall be protected by current-limiting switchgear installed at the base of the tower.</p> <p>In the event of a lightning strike, an electrical inspection shall be conducted on the affected turbine to identify and address any damage to the turbine or electrical system that could result in subsequent fire risk.</p>				
Impact 3.16 cont.	<p>Mitigation Measure 3.16-2c: Emergency Response Plan.</p> <p>Prior to the submission of the building permit application, the Applicant shall prepare an emergency response plan to be reviewed and approved by Shasta County Planning, CAL FIRE, and the Shasta County Fire Department. Following approval of the plan, the Applicant and/or its contractors shall implement the requirements in the plan during all phases of construction and operation, as applicable. The emergency response plan shall describe the likely types of potential accidents or emergencies involving fire that could occur during both construction and operation, and shall include response protocols for each scenario. The plan shall include key contact information and a description of key processes, in the event of an emergency in order to alert relevant responders of the emergency, and how to control the emergency. The plan shall include crew member training in response, suppression, and evacuation. The training shall be coordinated by the designated Fire Coordinators. Prior to construction, the Applicant shall submit to the County a compliance report demonstrating that all crew members have been trained. As new construction crews or operation workers are brought onsite, the Applicant shall submit additional compliance reports demonstrating that they have been received training on the emergency response plan.</p>	<p>Applicant to develop and submit Emergency Response Plan for review and approval to the County, Shasta County Fire Department, and CALFIRE.</p> <p>Applicant to submit to the County a compliance report demonstrating that all crew members have been trained regarding the Emergency Response Plan.</p> <p>County to review submittals and conduct on-site monitoring to ensure measures are properly implemented.</p>	<p>Development and submittal of plan prior to the submission of the building permit application.</p> <p>Implementation during construction</p>	Development and implementation of Emergency Response Plan	Shasta County
Impact 3.16-4: The Project would, unless mitigated, expose people or structures to significant risks, including adverse water quality effects or downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.	<p>Mitigation Measure 3.16-4: Implement the Fire Safety measures that would be required by Mitigation Measure 3.16-2a (Fire Safety); implement the Nacelle Fire Risk Reduction measures that would be required by Mitigation Measure 3.16-2b; and implement the Emergency Response Plan that would be required by Mitigation Measure 3.16-2c.</p>	See Mitigation Measures 3.16-21, 3.16-2b, and 3.16-2c			

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Exhibit F

Project-wide Plans and Other Documentation

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