

# **Appendix I**

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## Mitigation Monitoring and Reporting Program

Mitigation Monitoring and Reporting Program				
MM No.	Mitigation Measure	Monitoring Responsibility	Timing	Monitoring/Reporting Method
<b>Air Resources</b>				
Air-1	<p>The Applicant shall develop a Fugitive Dust Control Plan in compliance with Imperial County Air Pollution Control Regulation VIII to reduce Particulate Matter 10 and Fine Particulate Matter 2.5 emissions during construction. The Fugitive Dust Control Plan shall include:</p> <ul style="list-style-type: none"> <li>• Name(s), address(es), and phone number(s) of person(s) responsible for the preparation, submission, and implementation of the plan;</li> <li>• Description and location of operation(s); and</li> <li>• Listing of all fugitive dust emissions sources included in the operation.</li> <li>• The following dust control measures shall be implemented:               <ol style="list-style-type: none"> <li>1. The road leading to the operations and maintenance facility shall be paved as early as practical during construction.</li> <li>2. All other onsite unpaved roads shall be effectively stabilized using soil stabilizers that can be determined to be as efficient as or more efficient for fugitive dust control than California Air Resources Board approved soil stabilizers, and that shall not increase any other environmental impacts including loss of vegetation.</li> <li>3. All material excavated or graded will be sufficiently watered to prevent excessive dust. Watering will occur as needed with complete coverage of disturbed areas. The excavated soil piles are watered hourly for the duration of construction or covered with temporary coverings.</li> <li>4. Construction activities that occur on unpaved surfaces will be discontinued during windy conditions when winds exceed 25 miles per hour and when those activities cause visible dust plumes. All grading activities shall be suspended when wind speeds are greater than 30 miles per hour.</li> <li>5. Track-out shall not extend 25 feet or more from an active operation and track-out shall be removed at the conclusion of each workday.</li> <li>6. A wheel-washing system shall be installed and used to remove bulk material from tires and vehicle undercarriages before vehicles exit the proposed project property.</li> <li>7. All hauling materials should be moist while being loaded into dump trucks. All haul trucks hauling soil, sand, and other loose materials shall be covered (e.g., with tarps or other enclosures that would reduce fugitive dust emissions).</li> <li>8. Soil loads should be kept below 18 inches or the freeboard of the truck.</li> <li>9. Drop heights should be minimized when loaders dump soil into trucks.</li> <li>10. Gate seals should be tight on dump trucks.</li> <li>11. Traffic speeds on unpaved roads shall be limited to 15 miles per hour.</li> <li>12. Other fugitive dust control measures as necessary to comply with Imperial County Air Pollution Control District Rules and Regulations.</li> <li>13. Disturbed areas should be minimized.</li> <li>14. Disturbed areas should be revegetated as soon as possible after disturbance.</li> </ol> </li> </ul>	Imperial County Air Pollution Control District	Prior to construction (plan) and during construction	Submit Fugitive Dust Control Plan to Imperial county Air Pollution Control District for review and approval. Monitor in field during construction.

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Air-2	<p>The Applicant shall control emissions from the on-site off-road construction equipment by implementing the following:</p> <ul style="list-style-type: none"> <li>All off-road construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower to 750 horsepower, shall meet, at a minimum, the Tier 3 California Emission Standards for Off-road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless that such engine is not available for a particular item of equipment. In the event a Tier 3 engine is not available for any off-road engine larger than 50 horsepower and smaller than 750 horsepower, that engine shall be equipped with retrofit controls that would provide nitrogen oxides and particulate matter emissions that are equivalent to Tier 3 engine. Off-road equipment with diesel engines larger than 750 horsepower shall meet Tier 2 California Emission Standards, or be registered under and comply with the California Air Resources Board's Statewide Portable Equipment Registration Program.</li> <li>All equipment shall be turned off when not in use. Engine idling of all equipment shall be minimized.</li> <li>All equipment engines shall be maintained in good operating condition and in proposed tune per manufacturers' specification.</li> </ul>	Bureau of Land Management (BLM) and County of Imperial	Prior to construction (documentation) and during construction	Documentation for all off-road construction diesel engines shall be submitted to the BLM and Imperial County for review to ensure equipment meets specified standards. Monitor in field during construction.
Air-3	<p>The Applicant shall control fugitive dust from the unpaved roads on the site during operation using the following methods:</p> <ul style="list-style-type: none"> <li>Disturbed areas that have been stabilized after active construction activity has ceased, shall be maintained as stabilized surfaces throughout the project's life.</li> <li>Traffic speeds on unpaved roads shall be limited to no more than 15 miles per hour. Traffic speed signs shall be displayed prominently at all site entrances and at egress point(s) from the central maintenance complex.</li> </ul>	BLM and County of Imperial	During construction	Monitor in field during construction.
Air-4	<p>The Applicant shall control emissions from the on-site dedicated equipment (i.e. equipment that would remain on site each day) by implementing the following:</p> <ul style="list-style-type: none"> <li>All on-site off-road equipment and on-road vehicles for operation/maintenance shall be new equipment that meets the recent California Air Resources Board engine emission standards or alternatively fueled construction equipment, such as compressed natural gas, liquefied natural gas, or electric, as appropriate.</li> <li>All equipment shall be turned off when not in use. Engine idling of all equipment shall be minimized.</li> <li>All equipment engines shall be maintained in good operating condition and in proposed tune per manufacturers' specification.</li> </ul>	BLM and County of Imperial	Prior to operations (documentation) and during operations	Documentation for all on-site off-road equipment and on-road vehicles shall be submitted to the BLM and Imperial County for review to ensure equipment meet specified standards. Submit maintenance records upon request of the BLM and/or Imperial County to ensure equipment engines are maintained.

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<b>Cultural Resources</b>				
CUL-1	<p><b>Identify and evaluate cultural resources in final Area of Potential Effects (APE).</b> The Applicant shall provide sufficient technical data to enable the BLM to properly evaluate the significance of all potentially affected cultural resources. Cultural resources data collection shall be conducted by professionals meeting the Secretary's Standards and in accordance with those Standards, to provide recommendations with regard to their eligibility for the National Register of Historic Places (National Register), California Register of Historical Resources (California Register), or local registers. Preliminary determinations of National Register eligibility will be made by the BLM, in consultation with Imperial County and other appropriate consulting parties, Native American tribes, and the State Historic Preservation Officer (SHPO).</p>	BLM and County of Imperial	Prior to construction.	Technical data shall be submitted to the BLM and Imperial County for review.
CUL-2	<p><b>Avoid and protect potentially significant resources.</b> Where feasible, potentially National Register-eligible resources and California Register-eligible resources shall be protected from project impacts by project redesign. Complete avoidance of impacts to such resources shall be the preferred protection strategy. Avoidance of physical effects is the preferred treatment measure for historic properties to which Native American tribes attach sacred or religious significance, or for properties that have cultural significance as a traditional cultural property. The BLM would achieve this preferred treatment by conditioning the right-of-way (ROW) grant to exclude those historic properties, or lands from the project. On the basis of preliminary National Register eligibility assessments or previous determinations of resource eligibility, the BLM and Imperial County, in consultation with the SHPO, may request the relocation of the project area where relocation would avoid or reduce damage to cultural resource values.</p> <p>Where the BLM and Imperial County, in consultation with the Applicant, decide that potentially National Register-eligible and/or California Register-eligible cultural resources cannot be protected from impacts by project redesign, or that avoidance is not feasible, the Applicant shall undertake additional studies needed by the BLM to evaluate the resources' National Register and/or California Register eligibility and to recommend further mitigating treatment. The nature and extent of this evaluation shall be determined by the BLM in consultation with the consulting parties and shall be based upon final project engineering specifications. Evaluations will be based on surface remains, subsurface testing, archival and ethnographic resources, and in the framework of the historic context and important research questions of the project area. Results of those evaluation studies and recommendations for mitigation of project effects shall be incorporated into a Historic Properties Treatment Plan (HPTP).</p> <p>All potentially National Register-eligible and/or California Register-eligible resources or resources that are treated as eligible for project management purposes that will not be affected by physical impacts, but are within 150 feet of direct impact areas, will be designated</p>	BLM and County of Imperial	Prior to and during construction.	Additional studies, if warranted shall be submitted to the BLM and Imperial County for review. A CRMP with a monitoring program shall be developed and submitted to the BLM and Imperial County.

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	as Environmentally Sensitive Areas (ESAs) to ensure that construction activities do not encroach onsite peripheries. Protective fencing, or other markers (after approval by Imperial County/BLM), shall be erected and maintained to protect ESAs from inadvertent trespass for the duration of construction in the vicinity. ESAs shall not be identified specifically as cultural resources. A monitoring program shall be developed as part of a Management Plan for Archaeological Monitoring, Post-Review Discovery, and Unanticipated Effects and implemented by the Applicant to ensure the effectiveness of ESA protection.			
CUL-3	<b>Develop and implement a Management Plan for Archaeological Monitoring, Post-Review Discovery, and Unanticipated Effects.</b> Upon approval of the inventory report and the National Register and California Register eligibility evaluations, the Applicant shall prepare and submit for approval a Management Plan for Archaeological Monitoring, Post-Review Discovery, and Unanticipated Effects. The Management Plan shall define and map all known cultural resources within 150 feet of all project APEs. The Management Plan shall also detail how resources will be marked and protected as ESAs during construction. The Management Plan shall also define any additional areas that are considered to be of high-sensitivity for discovery of buried significant cultural resources, including burials, cremations, or sacred features. This sensitivity evaluation shall be conducted by an archaeologist who meets the Secretary of the Interior's Standards and who takes into account geomorphic setting and surrounding distributions of archaeological deposits. The Management Plan shall detail provisions for monitoring construction in these high-sensitivity areas. It shall also detail procedures for halting construction, making appropriate notifications to agencies, officials, and Native Americans, and assessing register-eligibility in the event that unknown cultural resources are discovered during construction. For all unanticipated cultural resource discoveries, the Management Plan shall detail the methods, consultation procedures, and timelines for assessing register-eligibility, formulating a mitigation plan, and implementing treatment. Mitigation and treatment plans for unanticipated discoveries shall be approved by the BLM, Imperial County, and the SHPO prior to implementation.	BLM and County of Imperial	Prior to construction.	A CRMP shall be developed and submitted to the BLM and Imperial County for review.
CUL-4	<b>Develop an HPTP and conduct data recovery or other actions to resolve adverse effects.</b> If National Register-eligible and/or California Register-eligible resources, as determined by the BLM and SHPO, cannot be protected from physical impacts of the proposed project, data-recovery investigations or other mitigation shall be conducted by the Applicant to resolve adverse effects to the characteristics of each property that contribute to its National Register and/or California Register eligibility. As part of the HPTP, the Applicant shall prepare a research design and a scope of work for data recovery or additional treatment of National Register-eligible and/or California Register-eligible sites that cannot be avoided and to resolve effects. Treatment of significant cultural resources shall follow the procedures established by the Advisory Council on Historic Preservation for compliance with Section 106 of the National Historic Preservation Act and other appropriate State and local regulations.	BLM and County of Imperial	Prior to and during construction.	Documentation of data-recovery investigations or other mitigation shall be developed and submitted to the BLM and Imperial County for review.

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	<p>The HPTP shall be submitted to the BLM for review and approval.</p> <p>For sites eligible under Criterion (d), significant data could be recovered through excavation and analysis. For properties eligible under Criteria (a), (b), or (c), mitigation may include but is not limited to historical documentation, photography, collection of oral histories, architectural or engineering documentation, preparation of a scholarly work, or some form of public awareness or interpretation. Data gathered during the evaluation phase studies and the research design element of the HPTP shall guide plans and data thresholds for data recovery; treatment will be based on the resource's research potential beyond that realized during resource recordation and evaluation studies. If data recovery is necessary, sampling for data-recovery excavations will follow standard statistical sampling methods, but sampling will be confined, as much as possible, to the physical impact area. Data-recovery methods, sample sizes, and procedures shall be detailed in the HPTP and implemented by the Applicant only after approval by the BLM. Construction work within 150 feet of cultural resources that require data-recovery fieldwork shall not begin until authorized by the BLM to ensure that impacts to known significant archaeological deposits are adequately resolved.</p> <p>The HPTP shall include provisions for reporting of results, curation of artifacts and data (maps, field notes, archival materials, recordings, reports, photographs, and analysts' data) at a facility that is approved by BLM, and dissemination of reports. The BLM will retain ownership of artifacts collected from BLM managed lands. The Applicant shall attempt to gain permission for artifacts from privately held land to be curated with the other project collections. The HPTP shall specify that archaeologists and other discipline specialists conducting the studies meet the Secretary of the Interior's Standards (per 36 Code of Federal Regulations [CFR] 61).</p> <p>A description of alternative treatments to resolve adverse effects that are not data recovery may include (but are not limited to):</p> <ul style="list-style-type: none"> <li>• Historical documentation for built-environment resources such as that completed for the Historic American Building Survey/Historic American Engineering Record program;</li> <li>• Placement of construction in parts of historic properties that do not contribute to the qualities that make the resource eligible for the National Register;</li> <li>• Deeding cemetery areas into open space in perpetuity and providing the necessary long-term protection measures;</li> <li>• Public interpretation including the preparation of a public version of the cultural resources studies and/or education materials for local schools;</li> <li>• Access by Native American tribes to traditional areas on the project site after the project has been constructed;</li> <li>• Support by Applicant to cultural centers in the preparation of interpretive displays; and</li> <li>• Consideration of other off-site mitigation.</li> </ul>			

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CUL-5	<p><b>Monitor construction at known ESAs.</b> The Applicant shall implement full-time archaeological monitoring by a professional archaeologist during ground-disturbing activities at all cultural resource ESAs. These locations and their protection boundaries shall be defined and mapped in the CRMP. Archaeological monitoring shall be conducted by a qualified archaeologist familiar with the types of historical and prehistoric resources that could be encountered within the project, and under direct supervision of a principal archaeologist. The qualifications of the principal archaeologist and archaeological monitors shall be approved by the BLM.</p> <p>A Native American monitor may be required at culturally sensitive locations specified by the BLM following government-to-government consultation with Native American tribes. The monitoring plan in the CRMP shall indicate the locations where Native American monitors will be required. The Applicant shall retain and schedule any required Native American monitors.</p> <p>Compliance with and effectiveness of any cultural resources monitoring required by the CRMP shall be documented by the Applicant in a monthly report to be submitted to the BLM for the duration of project construction. In the event that cultural resources are not properly protected by ESAs, all project work in the immediate vicinity shall be diverted to a buffer distance determined by the archaeological monitor until authorization to resume work has been granted by the BLM and Imperial County.</p> <p>The Applicant shall notify the BLM of any damage to cultural resource ESAs. If such damage occurs, the Applicant shall consult with the BLM to mitigate damages and to increase effectiveness of ESAs. At the discretion of the BLM and Imperial County, such mitigation may include, but not be limited to, modification of protective measures, refinement of monitoring protocols, data-recovery investigations or payment of compensatory damages in the form of non-destructive cultural resources studies or protection within or outside the license area, at the discretion of the BLM.</p>	BLM and County of Imperial	During construction.	Monitor in field during construction. Compliance with and effectiveness of any cultural resources monitoring required by a CRMP shall be documented in a monthly report to be submitted to the BLM for the duration of project construction. The Applicant shall notify the BLM of any damage to cultural resource ESAs.
CUL-6	<p><b>Train construction personnel.</b> All construction personnel shall be trained regarding the recognition of possible buried cultural remains and protection of all cultural resources, including prehistoric and historic resources during construction, prior to the initiation of construction or ground-disturbing activities. The Applicant shall complete training for all construction personnel and retain documentation showing when training of personnel was completed. Training shall inform all construction personnel of the procedures to be followed upon the discovery of archaeological materials, including Native American burials. Training shall inform all construction personnel that ESAs must be avoided and that travel and construction activity must be confined to designated roads and areas. All personnel shall be instructed that unauthorized collection or disturbance of artifacts or other cultural materials on or off the ROW by the Applicant, his representatives, or employees will not be allowed. Violators will be subject to prosecution under the appropriate State and federal laws and violations will be grounds for removal from the project. Unauthorized resource collection or disturbance may constitute grounds for the issuance of a stop work order. The following</p>	BLM and County of Imperial	Prior to construction.	Documentation showing when training of personnel was completed shall be submitted to the BLM and Imperial County for review.

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	<p>issues shall be addressed in training or in preparation for construction:</p> <ul style="list-style-type: none"> <li>All construction contracts shall require construction personnel to attend training so they are aware of the potential for inadvertently exposing buried archaeological deposits, their responsibility to avoid and protect all cultural resources, and the penalties for collection, vandalism, or inadvertent destruction of cultural resources.</li> <li>The Applicant shall provide training for supervisory construction personnel describing the potential for exposing cultural resources, the location of any potential ESA, and procedures and notifications required in the event of discoveries by project personnel or archaeological monitors. Supervisors shall also be briefed on the consequences of intentional or inadvertent damage to cultural resources. Supervisory personnel shall enforce restrictions on collection or disturbance of artifacts or other cultural resources.</li> </ul>			
CUL-7	<p><b>Properly treat human remains.</b> All locations of known Native American human remains shall be avoided through project design and shall be protected by designation as ESAs. The Applicant shall follow all State and federal laws, statutes, and regulations that govern the treatment of human remains. The Applicant shall assist and support the BLM in all required Section 106, government to-government and Native American Graves Protection and Repatriation Act (NAGPRA) consultations with Native Americans, agencies and commissions, and consulting parties as requested by the BLM. The Applicant shall comply with and implement all required actions and studies that result from such consultations. If human remains are discovered during construction, all work shall be diverted from the area of the discovery and the BLM authorized officer shall be informed immediately. Avoidance and protection of inadvertent discoveries which contain human remains shall be the preferred protection strategy with complete avoidance of impacts to such resources protected from physical project impacts by project redesign. The Applicant shall follow all State and federal laws, statutes, and regulations that govern the treatment of human remains. The Applicant shall comply with and implement all required actions and studies that result from such consultations, as directed by the BLM.</p>	BLM	During construction.	If human remains are discovered during construction, all work shall be diverted from the area of the discovery and the BLM authorized officer shall be informed immediately.
CUL-8	<p><b>Monitor construction in areas of high sensitivity for buried resources.</b> The Applicant shall implement archaeological monitoring by a professional archaeologist during subsurface construction disturbance at all locations identified in the Management Plan for Archaeological Monitoring, Post-Review Discovery, and Unanticipated Effects as highly sensitive for buried prehistoric or historical archaeological sites or Native American human remains. These locations and their protection boundaries shall be defined and mapped in the Management Plan. Intermittent monitoring may occur in areas of moderate archaeological sensitivity at the discretion of the BLM and Imperial County. Upon discovery of potential buried cultural materials by archaeologists or construction personnel, or damage to an ESA, work in the immediate area of the find shall be diverted and the BLM Authorized Officer or his/her designee shall be notified immediately. Once the find has been inspected and a preliminary assessment made, the Applicant's archaeologist will consult with the BLM, as appropriate, to</p>	BLM	During construction.	Monitor in field during construction. Upon discovery of potential buried cultural materials or damage to an ESA, work in the immediate area of the find shall be diverted and the BLM Authorized Officer or his/her designee shall be notified immediately.

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	make the necessary plans for evaluation and treatment of the find(s) or mitigation of adverse effects to ESAs, in accordance with the Secretary's Standards, and as specified in the Management Plan.			
CUL-9	<b>Continue consultation with Native American and other traditional groups.</b> The Applicant shall provide assistance to the BLM, as requested by the BLM, to continue required government-to-government consultation with interested Native American tribes and individuals (Executive Memorandum of April 29, 1994, and Section 106 of the National Historic Preservation Act) and other traditional groups to assess or mitigate the impact of the approved project on traditional cultural properties or other resources of Native American concern, such as sacred sites and landscapes, or areas of traditional plant gathering for food, medicine, basket weaving, or ceremonial uses. As directed by the BLM, the Applicant shall undertake required treatments, studies, or other actions that result from such consultation. Actions that are required during or after construction shall be defined, detailed, and scheduled in the CRMP and implemented by the Applicant.	BLM	Prior to and during construction.	Applicant shall provide assistance to the BLM, as requested.
CUL-10	<b>Protect and monitor National Register-eligible and/or California Register-eligible properties.</b> The Applicant shall design and implement a long-term management plan to protect National Register-eligible, California Register-eligible sites or sites treated as eligible for project management purposes from physical impacts of project operation and maintenance and from more indirect impacts (such as erosion and access) that could result from the presence of the project. The plan shall be developed in consultation with the BLM and other consulting parties to design measures that will be effective against project maintenance impacts, such as vegetation clearing and road and tower maintenance, and project-related vehicular impacts. The plan shall also include protective measures for the cultural resources within the transmission line corridor or main project area that may experience operational and access impacts as a result of the project. Measures considered shall include restrictive fencing or gates, permanent access road closures, signage, stabilization of potential erosive areas, site capping, site patrols, and interpretive/educational programs, or other measures that will be effective for protecting the resources. The plan shall be property specific and shall include provisions for monitoring and reporting its effectiveness and for addressing inadequacies or failures that result in damage to resources.  Monitoring of sites selected during consultation with BLM shall be conducted annually by a professional archaeologist for a minimum period of 5 years. Monitoring shall include inspection of all site loci and defined surface features, documented by photographs from fixed photo monitoring stations and written observations. A monitoring report shall be submitted to the BLM within 1 month following the annual resource monitoring. The report shall indicate any properties that have been affected by erosion, unauthorized excavation or collecting or vehicle or maintenance impacts. For properties that have been impacted, the Applicant shall provide recommendations for mitigating impacts and for improving protective measures. After 5 years of resource monitoring, the BLM will evaluate the effectiveness of the protective	BLM and Imperial County	During operation.	A long-term management plan to protect National Register-eligible, California Register-eligible sites or sites treated as eligible for project management purposes from direct impacts of project operation and maintenance and from indirect impacts (such as erosion and access) that could result from the presence of the project, shall be developed in consultation with the BLM

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	<p>measures and the monitoring program. Based on that evaluation, the BLM or Imperial County may require that the Applicant revise or refine the protective measures, or alter the monitoring protocol or schedule. If the BLM does not authorize alteration of the monitoring protocol or schedule, those shall remain in effect for the duration of project operation.</p> <p>If the annual monitoring program identifies adverse effects to National Register-eligible and/or California Register-eligible properties from operation or long-term presence of the project, or if, at any time, the Applicant, BLM or Imperial County become aware of such adverse effects, the Applicant shall notify the BLM immediately and implement additional protective measures, as directed by the BLM. At the discretion of the BLM such measures may include, but not be limited to, refinement of monitoring protocols, data-recovery investigations, or payment of compensatory damages in the form of nondestructive cultural resources studies or protection.</p>			
CUL-11	<p><b>Control unauthorized access.</b> The Applicant shall coordinate with the authorized officer of the BLM or local landowner/administrator at least 60 days before construction in order to determine if gates shall be installed on access roads, especially trails that would be dually used as access roads, to prevent unauthorized vehicular access to the ROW. Gate installation shall be required at the discretion of the land management agency. On trails proposed for dual use as access roads, gates shall be wide enough to allow horses, bicycles, and pedestrians to pass through. The Applicant shall document its coordination efforts with the administering agency of the road/trail and provide this documentation to the administering agency and all affected jurisdictions 30 days prior to construction. Signs prohibiting unauthorized use of the access roads shall be posted on the installed gates.</p>	BLM and Imperial County	Prior to construction.	The Applicant shall document its coordination efforts with the administering agency of the road/trail and provide this documentation to the administering agency and all affected jurisdictions 30 days prior to construction.
CUL-12	<p><b>Funding of law enforcement patrols.</b> To control unauthorized use of project access roads and to provide for the general protection of cultural and natural resources made more accessible as a result of the project facilities, the Applicant shall provide funding to land management entities for law enforcement patrols for the term of the ROW. The responsible land management entities will formulate what funding is reasonable to implement the above.</p>	BLM and Imperial County	During operation.	The Applicant shall provide funding to land management entities for law enforcement patrols for the term of the ROW.
<b>Lands and Realty</b>				
Lands-1	<p>Notify the communities of Ocotillo and Nomirage of all major project construction milestones, such as the start of project construction. Property owners within 1,000 feet of the project shall be provided with a detailed construction schedule at least 30 days before construction so that they are informed as to the time and location of disturbance. Updates shall be provided as necessary.</p>	County of Imperial	Prior to and during construction	Documentation of all notifications and mailing lists shall be provided to BLM and the County of Imperial upon request.
Lands-2	<p>The project shall be designed to minimize disturbance or modification of existing uses. If disturbance or modification of existing uses were necessary, the Applicant shall coordinate with the owners to determine an acceptable solution. Any such solutions/agreements shall be prepared in writing and submitted to the BLM and County.</p>	BLM and/or County of Imperial	Prior to construction	Project design documents shall be submitted to the BLM and County of Imperial for review and approval. If disturbance or modification of existing uses is necessary, documentation of all coordination efforts with owners and

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				resolutions shall be provided to BLM and/or the County, as appropriate.
Lands-3	The decommissioning plan shall include notification of property owners of all major decommissioning milestones, such as the start of decommissioning activities. Said property owners shall be provided with a detailed decommissioning schedule at least 30 days prior to decommissioning so that they are informed as to the time and location of disturbance. Updates shall be provided as necessary. In addition, the decommissioning plan shall ensure compliance with all applicable federal, State, and local plans, policies, and regulations at the time of decommissioning.	BLM and County of Imperial	Prior to decommissioning	Submit decommissioning plan, including detailed decommissioning schedule to BLM and the County of Imperial. Submit documentation of notification to property owners 30 days prior to decommissioning to BLM and the County of Imperial.
<b>Noise</b>				
Noise-1	<b>Limit Hours of Construction/Decommissioning.</b> Construction/decommissioning activities (including truck deliveries) shall be limited to the hours of 7 a.m. to 7 p.m., Monday through Friday, and 9 a.m. to 5 p.m. on Saturday and not permitted on Sunday or holidays when construction is occurring within 3,000 feet of residential or recreational areas.	BLM and County of Imperial	During construction & decommissioning	Monitor in field during construction and decommissioning.
Noise-2	<b>Ensure Equipment Performance.</b> During construction/decommissioning and prior to commencement of daily construction/decommissioning activities, the Applicant or project contractor shall inspect and verify that each piece of equipment, as appropriate, is fitted with efficient, well-maintained mufflers no less effective than those provided on the original equipment to reduce equipment noise emissions.	BLM and County of Imperial	During construction & decommissioning	Monitor in field during construction and decommissioning.
Noise-3	<b>Limit Use of Noise-Producing Signals.</b> The use of noise-producing signals, including horns, whistles, electronic alarms, sirens, and bells will be for safety purposes only. Sound-control devices shall be installed on all construction equipment, no less effective than those provided on the original equipment. Broadband noise backup alarms shall be used on mobile equipment.	BLM and County of Imperial	During construction & decommissioning	Monitor in field during construction and decommissioning.
Noise-4	<b>Notify Residences of Construction/Decommissioning.</b> The Applicant or project contractor shall provide advanced notification through public mailings and signs directed towards residents, landowners, and recreational users within one mile of the site at least one week prior to construction/ decommissioning. The notice shall state specifically when and where construction/ decommissioning activities would occur in the area. A phone number shall be provided as part of all public notifications to enable individuals to contact the Applicant and/or project contractor to report any significant undesirable noise conditions associated with construction or decommissioning activities. If the telephone is not staffed 24 hours per day, the Applicant and/or project contractor shall include an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended. This number shall be maintained until the project has been operational for at least one year. The Applicant shall document, investigate, and evaluate all complaints and attempt to resolve all legitimate project-related noise complaints and provide the BLM with the results of said investigation no later than 15 days after the complaint.	County of Imperial	Prior to construction & decommissioning (notifications) and during construction & decommissioning (documentation of noise complaints)	Documentation of all notifications and mailing lists shall be provided BLM and the County of Imperial upon request. Documentation of all project-related noise complaints, investigations, evaluations, and resolutions shall be submitted to BLM and the County of Imperial upon request.

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Noise-5	<b>Limit Hours of Road and Turbine Maintenance Activities.</b> Road and turbine maintenance activities involving the use of large construction equipment, such as graders, cranes, and/or man lifts shall be limited to the hours of 7 a.m. to 7 p.m., Monday through Friday, and 9 a.m. to 5 p.m. on Saturday and not permitted on Sunday or holidays when occurring within 3,000 feet of an occupied residence to avoid exceeding the Imperial County Noise Element limits and meet Imperial County construction equipment operations limitations.	BLM and County of Imperial	Prior to operations (documentation) and during operations	Operations manuals or other operational guidance shall specify limits for road and turbine maintenance activities. Submit to BLM and County of Imperial for review prior to start of operations. Monitor in field during operations.
<b>Paleontological Resources</b>				
Paleo-1	The two areas of Palm Spring Formation (Potential Fossil Yield Classification [PFYC] Class 4) exposures identified within the Ocotillo Wind Energy Facility (OWEF) boundary, where a high density of vertebrate fossils were found, shall be avoided to preserve subsurface fossils in their native stratigraphic context. Avoidance areas shall be marked prior to construction.	BLM	During construction	Monitor in field during construction.
Paleo-2	Prior to construction, a training session on the recognition of the types of paleontological resources that could be encountered within the project area and the procedures to be followed if they are found shall be presented to project construction personnel by a qualified and BLM-permitted professional paleontologist.	BLM	Prior to construction	Submit resume(s) of paleontologist who will conduct training to BLM for review and approval.
Paleo-3	If construction or other project personnel discover any potential fossils during construction, project operation and maintenance, or decommissioning, the fossils shall be left undisturbed and the BLM Authorized Officer shall be notified immediately.	BLM	During construction, operations, and decommissioning	Report all discoveries of potential fossils to BLM within 24 hours of identification. Stop all work in that area until BLM has determined fossil legitimacy and cleared the area or otherwise indicates work may proceed.
<b>Public Health and Safety</b>				
PHS-1	Prior to issuance of building permits, the Applicant shall submit documentation to the Bureau of Land Management and Imperial County Planning & Development Services demonstrating a Determination of No Hazard to Air Navigation from the Federal Aviation Administration (FAA) of Form 7460-1 (Notice of Proposed Construction or Alteration). Documentation shall also be furnished to the Bureau of Land Management and Imperial County Planning & Development Services demonstrating that a copy of the approved form(s) has been provided to the operator of the Emory Ranch private airport. All project components shall have lighting and marking required by the Federal Aviation Administration so not to create a hazard to air navigation. Lighting placed on wind turbines must be compatible with military night-vision goggles utilized by the Department of the Navy.	BLM and County of Imperial	Prior to construction	Submit FAA's Determination of No Hazard to Air Navigation to the BLM and County of Imperial Planning & Development Services. Additional documentation shall demonstrate that the approved FAA form(s) have been provided to the Emory Ranch private airport. Project components shall be field inspected following construction to ensure required lighting and markings are properly installed.
PHS-2	All wind turbines constructed within the area 1.5 nautical miles south of the centerline of the U.S. Navy, Department of Defense Airspace Consultation Area shall be less than 400 feet tall at the maximum blade tip height.	BLM	Prior to construction	Submit design plans for the wind turbines, including heights to the BLM for review and approval.

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PHS-3	<p>Prior to the issuance of building or grading permits, the Applicant shall conduct a full geotechnical study to evaluate soil conditions and geologic hazards on the project site and submit it for approval to the Bureau of Land Management for federal lands and the Imperial County Planning &amp; Development Services for County lands. The geotechnical study must be signed by a California-registered professional engineer and must identify the following:</p> <ul style="list-style-type: none"> <li>• Location of fault traces and potential for surface rupture;</li> <li>• Potential for seismically induced ground shaking, liquefaction, landslides, differential settlement, and mudflows;</li> <li>• Stability of existing cut-and-fill slopes;</li> <li>• Collapsible or expansive soils;</li> <li>• Foundation material type;</li> <li>• Potential for wind erosion, water erosion, sedimentation, and flooding;</li> <li>• Location and description of unprotected drainage that could be impacted by the proposed development; and</li> <li>• Recommendations for placement and design of facilities, foundations, and remediation of unstable ground.</li> </ul> <p>The Applicant shall determine the final siting of project facilities based on the results of the geotechnical study and implement recommended measures to minimize geologic hazards. The Applicant shall not locate project facilities on or immediately adjacent to a fault trace. The BLM and Imperial County Planning &amp; Development Services will evaluate any final facility siting design developed prior to the issuance of any building or grading permits to verify that geological constraints have been avoided.</p>	BLM and County of Imperial	Prior to construction and issuance of building or grading permits	Submit geotechnical study, signed by a California-registered professional engineer, to BLM (for federal lands) and County of Imperial (for County lands) for review and approval at least 60 days before final project design. To verify that geological constraints detailed in the geotechnical study have been avoided, submit final facility siting design plans to BLM and the County of Imperial for review and approval.
PHS-4	<p>If, during grading or excavation work, the contractor observes visual or olfactory evidence of contamination or if soil contamination is otherwise suspected, work near the excavation site shall be terminated, the work area cordoned off, and appropriate health and safety procedures implemented for the location by the contractor's Health &amp; Safety Officer. Samples shall be collected by an Occupational Safety and Health Administration-trained individual with a minimum of 40-hours hazardous material site worker training. Laboratory data from suspected contaminated material shall be reviewed by the contractor's Health and Safety Officer. If the sample testing determines that contamination is not present, work may proceed at the site. However, if contamination is detected above regulatory limits, the BLM and the Imperial County Public Health Department shall be notified. All actions related to encountering unanticipated hazardous materials at the site shall be documented and submitted to the BLM for federal lands and the Imperial County Public Health Department for County lands.</p>	BLM and Imperial County Public Health Department	During construction	Monitor in field during construction to ensure procedures are followed as specified in measure. Notify BLM and Imperial County Public Health Department if contamination is detected above regulatory limits. Document all actions related to encountering unanticipated hazardous materials at the site and submit to BLM (for federal lands) and Imperial County (for County lands).

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PHS-5	<p>If blasting is required, the Applicant shall contract with a blasting contractor with experience conducting blasting activities, licensed to use Class A explosives, and licensed as a contractor in the State of California. The blasting contractor shall prepare a blasting plan for the proposed blasting activities to prevent endangering worker safety. The blasting plan shall be submitted to the Bureau of Land Management for approval on federal lands and to the Imperial County Planning &amp; Development Services for approval on County lands, in consultation with the Imperial County Public Health Department, the Imperial County Fire Department, and the Imperial County Air Pollution Control District. The blasting plan shall:</p> <ul style="list-style-type: none"> <li>• Describe procedures to be implemented to protect workers during blasting, such as using a signaling system to alert workers of an impending blast and using blasting mats to prevent or reduce the number of rock particles thrown into the air;</li> <li>• Describe procedures for proper storage and transportation of explosive materials, including protecting explosives from wildfires;</li> <li>• Prohibit blasting during extreme fire danger periods; and</li> <li>• Comply with the U.S. Bureau of Mines and the U.S. Department of the Interior Office of Surface Mining Reclamation and Enforcement guidelines for minimizing damage to structures from blasting.</li> </ul>	BLM and County of Imperial	Prior to construction (plan) and during construction	If blasting is required, submit blasting plan to BLM (for federal lands) and Imperial County Planning & Development (for County lands) for review and approval. Copies of the blasting plan shall also be submitted to Imperial County Public Health Department, Imperial County Fire Department, and Imperial County Air Pollution Control District for review. Monitor in field during construction to ensure plan implementation.
PHS-6	<p>If herbicides are utilized, the contractor or personnel applying herbicides must have all the appropriate State and local herbicide applicator licenses and comply with all State and local regulations regarding herbicide use. Herbicides shall be mixed and applied in conformance with the product manufacturer's directions. The herbicide applicator shall be equipped with splash protection clothing and gear, chemical resistant gloves, chemical spill/splash wash supplies, and material safety data sheets for all hazardous materials to be used. To minimize harm to wildlife, vegetation, and waterbodies, herbicides shall not be applied directly to wildlife, products identified as non-toxic to birds and small mammals shall be used if nests or dens are observed, and herbicides shall not be applied within 50 feet of any surface water-body when water is present. Herbicides shall not be applied if it is raining at the site, rain is imminent, or the target area has puddles or standing water. Herbicides shall not be applied when wind velocity exceeds 10 miles per hour. If spray is observed to be drifting to a non-target location, spraying shall be discontinued until conditions causing the drift have abated.</p>	BLM and County of Imperial	During construction	Monitor in field during construction.
PHS-7	<p>The Applicant shall site all fueling, hazardous materials storage areas, and operation and maintenance activities involving hazardous materials at least 100 feet away from blue-line drainages as identified on U.S. Geological Survey topography maps and wetlands.</p>	BLM and County of Imperial	During construction	Monitor in field during construction.
PHS-8	<p>The Applicant shall appoint an Emergency Response Liaison to coordinate the reduction of construction-related traffic for the duration of any emergency at or nearby the project site. The BLM, Imperial County Fire Department, Imperial County Sheriff's Office, and the California Highway Patrol shall be provided with the construction schedule and the on-site contact information for the Liaison prior to construction. The Liaison shall be immediately</p>	BLM and County of Imperial	Prior to construction (procedures) and during construction	Submit emergency procedures for access to the project site to BLM, Imperial County Fire Department, Imperial County Sheriff's Office, and California Highway Patrol for review.

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	reachable at all times during project construction. The Liaison shall have radio contact with project construction vehicles at all times to coordinate traffic reduction measures. In addition, the Liaison shall coordinate with the BLM, Imperial County Fire Department, the Imperial County Sherriff's Office and the California Highway Patrol to establish emergency procedures for access to the project site in the event of an emergency.			Submit documentation to BLM and the County of Imperial showing receipt of construction schedule and on-site contact information for the Emergency Response Liaison to the above-mentioned parties. Monitor in field during construction.
PHS-9	In order to eliminate the risk of generating disease vectors at the site, during project construction and operations, the Applicant shall ensure that trash is stored in closed containers and removed from the site at regular intervals. Open containers shall be inverted and construction ditches shall not be allowed to accumulate water. Construction and maintenance operations shall not generate standing water. Naturally occurring depressions, drainages, and pools at the site shall not be drained or filled without consulting with the appropriate resource agency (BLM, Imperial County, U.S. Army Corps of Engineers (ACOE), U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Game (CDFG)) and obtaining the appropriate permits. The environmental monitor will ensure that standing water and large quantities of trash do not accumulate on site.	BLM and County of Imperial	During construction and operations	Monitor in field during construction. Submit documentation to BLM and County of Imperial of all consultation with resource agencies, permit applications, and final permits obtained. Monitor in field during construction to ensure standing water and large quantities of trash do not accumulate on site.
<b>Recreation</b>				
Rec-1	<p>Juan Bautista de Anza National Historic Trail (Anza Trail) Corridor. As recommended by the National Park Service (NPS), a Comprehensive Interpretive Plan for the Anza Trail will be prepared through Applicant cooperation and coordination with the BLM and the NPS. Potential components of this Plan as identified by the NPS could include, but not be limited to the following:</p> <ul style="list-style-type: none"> <li>• New Interpretive Facilities                             <ul style="list-style-type: none"> <li>- Installation of Yuha Well Wayside Exhibit</li> <li>- Additional Interpretation at the Anza Trail Overlook</li> <li>- Interpretive Exhibit at Plaster City Off-Highway Vehicle (OHV) Open Area</li> <li>- Supplement Exhibit at Sunbeam Rest Area on Interstate 8 (I-8)</li> </ul> </li> <li>• Anza Trail-Themed Exhibit at a Local Museum</li> <li>• Anza Trail Interpretive Brochure</li> <li>• Increase Accessibility of the BLM Yuha Desert Cultural History Anza Tour</li> <li>• Re-evaluate and Complete the Anza Recreational Trail</li> <li>• Historic Campsite Surveys (Archaeological Studies)</li> <li>• Trail-Wide Mitigation Fund</li> </ul> <p>Final determination of the measures may include any of the above measures, in conjunction with consultation with the NPS and the BLM.</p>	BLM	Applicant responsibilities to be established prior to project operation	BLM will take the lead in coordinating the plan and identifying Applicant responsibilities.

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MM No.	Mitigation Measure	Monitoring Responsibility	Timing	Monitoring/Reporting Method
<b>Soil Resources</b>				
Soil-1	<p><b>Conduct geotechnical studies to assess soil characteristics and aid in appropriate foundation design.</b> The design-level geotechnical studies to be performed by the Applicant shall identify the presence, if any, of potentially detrimental soil chemicals, such as chlorides and sulfates. Appropriate design measures for protection of reinforcement, concrete, and metal-structural components against corrosion shall be utilized, such as use of corrosion-resistant materials and coatings, increased thickness of project components exposed to potentially corrosive conditions, and use of passive and/or active cathodic protection systems. The geotechnical studies shall also identify areas with potentially expansive or collapsible soils and include appropriate design features, including excavation of potentially expansive or collapsible soils during construction and replacement with engineered backfill, ground-treatment processes, and redirection of surface water and drainage away from expansive foundation soils. Studies shall conform to industry standards of care and American Society for Testing and Materials (ASTM) standards for field and laboratory testing. Study results and proposed solutions shall be provided for review and approval to the BLM, for actions on BLM lands, and to Imperial County, for actions on County lands, at least 60 days before final project design.</p>	BLM and County of Imperial	Prior to construction and issuance of building or grading permits	Submit geotechnical study, signed by a California-registered professional engineer, to BLM (for federal lands) and County of Imperial (for County lands) for review and approval at least 60 days before final project design. To verify that geological constraints detailed in the geotechnical study have been avoided, submit final facility siting design plans to BLM and the County of Imperial for review and approval.
<b>Vegetation Resources</b>				
Veg-1a	<p>Final engineering of the project shall reduce the size of the permanent and temporary construction work areas where possible and minimize the impacts to sensitive vegetation communities and special status plant species. Prior to the start of construction, all permanent and temporary work areas (including, but not limited to, staging areas, access roads, and sites for temporary placement of construction materials and spoils) shall be delineated with staking and flagging to clearly identify the limits of work and shall be verified by the biological monitor (Mitigation Measure Veg-1b) prior to ground disturbing activities. If fencing is used instead of stakes and flagging, the design of the fencing shall be done in coordination with the Wildlife Agencies. The Biological Monitor(s) shall be responsible for monitoring to ensure that all delineated disturbance boundaries remain intact and shall monitor for any disturbance outside of the boundaries. Staking and flagging (or fencing, if used) shall remain in place for the duration of construction. Spoils shall be stockpiled in disturbed areas lacking native vegetation or where habitat quality is poor. To the extent possible, disturbance of shrubs and surface soils due to stockpiling shall be minimized. All disturbances, vehicles, and equipment shall be confined to the staked/flagged or fenced areas.</p> <p>When feasible, construction activities shall implement drive and crush rather than grading. Construction equipment would drive over and crush native plants to minimize impacts to the roots of desert shrubs. Drive and crush is expected to reduce the recovery time of desert scrubs within the temporary construction areas.</p>	BLM and County of Imperial	Prior to and during construction	Submit final facility siting design plans to BLM and the County of Imperial for review and approval. Biological Monitor to monitor in field during construction.
Veg-1b	Prior to ground disturbing activities, an individual shall be designated and approved by the BLM and Wildlife Agencies (USFWS and CDFG) as a Designated Biologist (i.e., field contact	BLM , USFWS,	Prior to	Prior to construction, submit resumes

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	<p>representative). A Designated Biologist will be designated for the period during which on-going construction and post-construction monitoring and reporting by an approved biologist is required, such as annual reporting on vegetation restoration. The Designated Biologist shall have the authority and responsibility to halt activities that are in violation of the Mitigation Measures. To avoid and minimize effects to biological resources, the Designated Biologist shall:</p> <ul style="list-style-type: none"> <li>• Notify BLM's Authorized Officer and the wildlife agencies at least 14 calendar days before initiating ground disturbing activities.</li> <li>• Immediately notify BLM's Authorized Officer and the wildlife agencies in writing if the project Applicant does not comply with any of the mitigation measures.</li> <li>• Conduct compliance inspections at a minimum of once per month during on-going construction after clearing, grubbing, and grading are completed, and submit a monthly compliance report to BLM's Authorized Officer until construction is complete.</li> </ul> <p>Prior to project initiation, the Designated Biologist shall develop and implement a Worker Education Awareness Program (WEAP) and shall be available in English and Spanish. Wallet-sized cards summarizing the information will be provided to all construction and operation and maintenance (O&amp;M) personnel. The WEAP shall include the following:</p> <ul style="list-style-type: none"> <li>• An explanation of the function of flagging that designates authorized work areas.</li> <li>• An explanation of the sensitivity of the vegetation communities and special status plant species within and adjacent to work areas.</li> <li>• The importance of avoiding the introduction of invasive weeds onto the proposed OWEF site and surrounding areas.</li> </ul>	CDFG	construction (resumes) and during construction	of recommended individual for Designated Biologist position to the BLM, USFWS, and CDFG for review and approval. Prior to project initiation, submit WEAP to BLM for review and approval and to USFWS and CDFG for review. Designated Biologist to monitor in field during construction.
Veg-1c	<p>Implement special status plant species avoidance/restoration/compensation. If necessary and prior to the start of construction, a qualified biologist shall conduct focused surveys during the appropriate blooming period for special status plant species for all portions of the proposed project that have not been previously surveyed and the results of those surveys shall be submitted to the BLM for review and approval. When feasible, construction activities should avoid special status plant species. The Habitat Restoration/ Revegetation Plan (HRRP) (Mitigation Measure Veg-2b) shall include methods to salvage soil and seed in areas containing special status plant species for use in the revegetation of temporary impact areas, and shall specify container stock and seed of the affected special status plant species for use in restoration/revegetation areas. Native container stock and seed shall originate from geographic distances as close as possible to the project site and/or from areas of ecological similarity.</p>	BLM, USFWS, CDFG	Prior to construction	Submit reports of focused surveys to the BLM, USFWS, and CDFG for review prior to issuance of the HRRP (see MM Veg-2b).

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Veg-1d	Prepare and implement an Integrated Weed Management Plan to control non-native invasive weeds as developed in cooperation with the BLM and County of Imperial. The Integrated Weed Management Plan for the project shall include a risk assessment of the invasive weed species currently known within the proposed OWEF site, procedures to control their spread on site and to adjacent off-site areas, and procedures to help minimize the introduction of new weed species. The Integrated Weed Management Plan shall be submitted to the BLM and County for review and approval prior to the start of construction and shall be implemented prior to, during, and following the completion of construction for the life of the project.	BLM and County of Imperial	Prior to construction (plan), during and post-construction	Submit Weed Management Plan to BLM and the County of Imperial for review and approval prior to construction. Monitor in field during and after construction to ensure compliance with the plan.
Veg-2a	Permanent impacts to sensitive vegetation communities shall be compensated through a combination of compensation and restoration at a minimum 1:1 ratio or as required by the permitting agencies. Habitat compensation shall be accomplished through agency-approved land preservation or mitigation fee payment for the purpose of habitat compensation of lands supporting comparable habitats to those lands impacted by the proposed project. Restoration may be appropriate as mitigation for permanent impacts provided that restoration is demonstrated to be feasible and the restoration effort is implemented pursuant to a Habitat Restoration/Revegetation Plan (Mitigation Measure Veg-2b).	BLM, USFWS, CDFG	Prior to construction (plan) and post-construction	Submit HRRP to BLM, USFWS, and CDFG for review and approval prior to construction. Monitor in field following construction for a period of 5 years to ensure restoration / revegetation meets all success criteria.
Veg-2b	Temporarily disturbed areas shall be revegetated according to a (HRRP) approved by the BLM and Wildlife Agencies. The HRRP must be approved in writing prior to the initiation of any vegetation disturbing activities. Restoration involves recontouring the land and replacing topsoil (if it was collected). Revegetation also involves planting seed and/or container stock, maintaining the plantings (e.g., weeding, replacement planting, supplemental watering), and monitoring the restored/revegetated areas for a period of at least five years (or until the restoration/ revegetation meets all success criteria). The HRRP shall include methods to salvage soil and seed in areas containing special status plant species for use in the revegetation of temporary impact areas, and shall include container stock and seed of the affected special status plant species for use in restoration/revegetation areas. Restoration measures in desert environments include alleviating soil compaction, returning the surface to its original contours, pitting or imprinting the surface to allow small areas where seeds and rain water can be captured, planting seedlings with root mass necessary to survive without watering, planting seedlings in the spring with herbivory cages, broadcasting locally collected seed immediately prior to the rainy season, and covering seeds with mulch. The final success criteria for restored/revegetated areas are as follows: (1) Native vegetation cover measured within revegetated areas should be at least 70 percent of that measured at reference sites located in similar habitat; (2) non-native vegetation cover within revegetated areas should be equal to or less than that measured at reference sites located in similar habitat, and (3) recruitment (the successful, natural reproduction and/or establishment of plants in a given area) of native plants should demonstrate at least 40 percent of the recruitment observed in a reference site located in similar habitat. If after five years of monitoring there are areas that do not meet the success criteria, these areas shall be compensated off site at a 1:1 ratio of	BLM, USFWS, CDFG	Prior to construction (plan) and post-construction	Submit HRRP to BLM, USFWS, and CDFG for review and approval prior to construction. Monitor in field following construction for a period of 5 years to ensure restoration / revegetation meets all success criteria.

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	equal or better quality habitat compared to what was impacted, in accordance with Mitigation Measure Veg-2a.			
Veg-3	The Applicant shall prepare and implement a Jurisdictional Mitigation Plan to describe the mitigation for impacts to jurisdictional areas within the proposed OWEF site. The Jurisdictional Mitigation Plan shall be submitted to the ACOE, Regional Water Quality Control Board (RWQCB), and CDFG for review and approval and shall describe the location and size of the mitigation proposed, description of the habitat creation/restoration effort, success criteria, and maintenance and monitoring specifications. The Applicant proposes to remove dense, mature stands of tamarisk within the approximately 318-acre Carrizo Marsh to mitigate impacts to jurisdictional areas, which is described in the Draft Off-site Habitat Restoration Plan. The final success criteria in the Draft Off-site Habitat Restoration Plan are as follows: 0 percent cover of tamarisk in the shrub layer; less than 5 percent cover of tamarisk in the herb layer; less than 5 percent cover by other noxious weed species; and less than 20 percent cover by other non-native species at the end of 5 years of maintenance.	BLM, County of Imperial, ACOE, RWQCB, CDFG	Prior to construction (permits) and during construction	Submit copies of all permits from agencies to BLM and the County of Imperial for review. Monitor in field during construction to ensure compliance with permit conditions.
<b>Visual Resources</b>				
VR-1	The Applicant shall revegetate disturbed soil. In order to specifically address visual concerns, the Decommissioning and Restoration plans shall include reclamation of the area of disturbed soils used for laydown, project construction, and siting of the other ancillary operation and support structures. Revegetation shall re-establish the pre-existing colors, textures and form to the landscape and visually integrate into the adjacent edges removing the lines of demarcation.	BLM and County of Imperial	After construction and after decommissioning	Submit HRRP to BLM, USFWS, and CDFG for review and approval prior to construction. Monitor in field following construction and decommissioning.
VR-2	The Applicant shall design and install all permanent exterior lighting and all temporary construction lighting such that: (a) lamps and reflectors are not visible from beyond the project site, including any off-site security buffer areas; (b) lighting does not cause excessive reflected glare; (c) direct lighting does not illuminate the nighttime sky, except for required FAA aircraft safety lighting (which may be an on-demand, audio-visual warning system that is triggered by radar technology if it is approved by the FAA for use on wind turbines); (d) illumination of the project and its immediate vicinity is minimized; and (e) the plan complies with local policies and ordinances. The Applicant shall submit to the BLM and Imperial County for review and approval a lighting mitigation plan that includes the following: <ul style="list-style-type: none"> <li>• Location and direction of light fixtures that take the lighting mitigation requirements into account;</li> <li>• Lighting design that considers setbacks of project features from the site boundary to aid in satisfying the lighting mitigation requirements;</li> <li>• Lighting shall incorporate fixture hoods/shielding, with light directed downward or toward the area to be illuminated;</li> <li>• Light fixtures that are visible from beyond the project boundary shall have cutoff angles that are sufficient to prevent lamps and reflectors from being visible beyond the project</li> </ul>	BLM and County of Imperial	During project design and construction	Submit copies of lighting plans to BLM and Imperial County for review and approval.

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	<p>boundary, except where necessary for security;</p> <ul style="list-style-type: none"> <li>• All lighting shall be of minimum necessary brightness consistent with operational safety and security; and</li> <li>• Lights in high illumination areas not occupied on a continuous basis (such as maintenance platforms) shall have (in addition to hoods) switches, timer switches, or motion detectors so that the lights operate only when the area is occupied.</li> </ul>			
VR-3	<p><b>Reduce visual contrast associated with substation and ancillary facilities.</b> The project applicant shall submit to the appropriate land use jurisdiction agency a Surface Treatment Plan describing the application of colors and textures to all new facility structure buildings, walls, fences, and components comprising all ancillary facilities including substations. The Surface Treatment Plan must reduce glare and minimize visual intrusion and contrast by blending the facilities with the landscape. The Surface Treatment Plan shall be submitted to the appropriate land use jurisdiction agency for approval at least 90 days prior to either: (a) ordering the first structures that are to be color treated during manufacture; or (b) construction of any of the ancillary facility components, whichever comes first. If the appropriate land use jurisdiction agency notifies the project applicant that revisions to the Plan are needed before the Plan can be approved, within 30 days of receiving that notification, the project applicant shall prepare and submit for review and approval a revised Surface Treatment Plan. The Surface Treatment Plan shall include:</p> <ul style="list-style-type: none"> <li>• Specification and 11" x 17" color simulations at life-size scale of the treatment proposed for use on project structures, including structures treated during manufacture</li> <li>• A list of each major project structure, building, tower and/or pole, and fencing specifying the color(s) and finish proposed for each (colors must be identified by name and by vendor brand or a universal designation)</li> <li>• Two sets of brochures and/or color chips for each proposed color</li> <li>• A detailed schedule for completion of the treatment</li> <li>• Procedures to ensure proper treatment maintenance for the life of the project.</li> </ul> <p>The project Applicant shall not specify to the vendors the treatment of any buildings or structures treated during manufacture, or perform the final treatment on any buildings or structures treated on site, until project applicants receive notification of approval of the Surface Treatment Plan by the appropriate land use jurisdiction agency. Within 30 days following the start of commercial operation, the project applicant shall notify the appropriate land use jurisdiction agency that all buildings and structures are ready for inspection.</p>	BLM or County of Imperial	90 days prior to either: (a) ordering the first structures that are to be color treated during manufacture; or (b) construction of any of the ancillary facility components,	Within 30 days following the start of commercial operation, the project Applicant shall notify the appropriate land use jurisdiction agency that all buildings and structures are ready for inspection.
VR-4	<p><b>Screen substations and ancillary facilities.</b> The project Applicant shall provide a Screening Plan for screening vegetation, walls, and fences that reduces visibility of ancillary facilities and helps the facility blend in with the landscape. The use of berms to facilitate project screening may also be incorporated into the Screening Plan. The project applicant shall submit the Plan to the appropriate land use jurisdiction agency for review and approval at</p>	BLM or County of Imperial	Prior to installing the landscape screening	The project applicant shall submit the Plan to the appropriate land use jurisdiction agency for review and approval at least 90 days prior to installing the landscape screening.

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	least 90 days prior to installing the landscape screening. If the appropriate land use jurisdiction agency notifies the project applicant that revisions to the Screening Plan are needed before the Plan can be approved, the project Applicant shall submit a revised Screening Plan within 30 days of receiving that notification.			
VR-5	<b>Reduce potential visual contrast of transmission structures.</b> The project Applicant will use dulled metal finish transmission structures and non-specular conductors.	BLM	During project design and construction	Submit copies of plans to BLM for review and approval. The project Applicant shall BLM that all structures are ready for inspection.
VR-6	<b>Reduce potential transmission conductor visibility and visual contrast.</b> The following design measures shall be applied to all new structure locations, conductors, and re-conducted spans to reduce the degree of visual contrast caused by the new facilities: <ul style="list-style-type: none"> <li>All new conductors and re-conducted spans will be non-specular in design to reduce conductor visibility and visual contrast.</li> <li>Where revisions would not conflict with existing design considerations to avoid sensitive resources (including hydrological, cultural, and biological resources), no new access roads shall be constructed such that they directly approach existing or proposed towers in a straight line from sensitive viewing locations immediately downhill of the structures.</li> </ul>	BLM	During project design and construction	Submit copies of plans to BLM for review and approval. The project Applicant shall BLM that all structures are ready for inspection.
VR-7	<b>Reduce potential visual contrast from transmission structure spacing.</b> Where the line parallels existing transmission lines, the spacing of structures shall match the existing transmission structures, where feasible, to minimize visual effects.	BLM	During project design and construction	Submit copies of plans to BLM for review and approval. The project Applicant shall BLM that all structures are ready for inspection.
VR-8	<b>Reduce potential view blockage and visual contrasts of structures.</b> Transmission line structures will not be installed directly in front of residences or in direct line-of-sight from a residence where feasible. The project Applicant will consult with affected property owners on structure siting to reduce land use and visual impacts.	BLM	During project design and construction	Submit copies of plans to BLM for review and approval. The project Applicant shall BLM that all structures are ready for inspection.
<b>Water Resources</b>				
Water-1	<b>Demonstrate compliance with water quality permits.</b> Prior to construction, the Applicant shall submit satisfactory evidence to the BLM and the Imperial County Department of Planning and Building, as applicable, that all of the agencies listed below have been contacted and whether or not each agency requires a permit associated with the OWEF. Permits may include, but are not limited to, a Streambed Alteration Agreement from the CDFG, a Clean Water Act Section 404 permit from the ACOE, a Clean Water Act Section 402 National Pollutant Discharge Elimination System (NPDES) General Permit for storm-water discharges associated with construction activities, including a Stormwater Pollution Prevention Plan (SWPPP) with Best Management Practices (BMPs) for stormwater management, a Clean Water Act Section 401 certification from the applicable RWQCB (Colorado River Basin RWQCB for activities at the proposed OWEF site, and/or San Diego Basin	BLM and County of Imperial	Prior to construction (evidence/permit conditions) and during construction, and operations	Submit evidence to BLM and Imperial County Department of Planning and Building, as applicable, that all agencies listed have been contacted and identify required permits. Where a permit is required, submit a copy of all conditions required by that agency to BLM (for federal lands) and Imperial County Building and Planning (for County lands) for review. Monitor in field during construction to ensure compliance with specified permit

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	<p>RWQCB for activities at the proposed water source in Pine Valley).</p> <p>Where a permit is required, the Applicant shall provide a copy of all the conditions required by that agency to BLM, for actions on BLM lands, and to the Imperial County Department of Planning and Building, for actions on County lands. The BLM and the County, as applicable, shall review these conditions for consistency with proposed plans. During construction, the Environmental Monitor shall be aware of these other agency conditions and if non-compliance is observed, shall contact the affected agency. For post-construction measures the Environmental Monitor shall notify the affected agency should non-compliance be observed. The Applicant shall maintain and make available on site at all times an approved copy of all required permits.</p>			conditions, which shall be provided to the environmental monitor.
Water-2	<p><b>Develop a Water Supply Contingency Plan for construction.</b> Prior to construction, Applicant shall conduct a groundwater investigation for any groundwater basin(s) potentially affected by construction, operation, and/or decommissioning of the project to determine whether the identified groundwater resource(s) is in overdraft conditions; such investigation may include review of historic groundwater well data, groundwater monitoring, hydrologic modeling, and/or interviews with private well owners. The Applicant shall coordinate groundwater investigation efforts with the applicable RWQCB. No new uses of groundwater resources from overdrafted basins shall be introduced to meet project needs.</p> <p>If groundwater is to be used during project construction, at least two supply wells shall be identified for project use, a primary supply well and a secondary supply well. The Water Supply Contingency Plan shall identify the well sites, proximity to other active wells, estimated total depth, well screen depth, diameter, estimated yield and water quality, and time required to have the wells drilled, constructed, developed and fully operational (if the wells are to be drilled specifically for the project, as opposed to use of existing wells). If the daily yields of the primary supply well are inadequate or become inadequate to meet the project requirements, the secondary supply well shall be used in order to avoid potential drawdown impacts at wells near the primary. Use of a secondary supply well would not alter the quantity of groundwater pumped for project purposes; the purpose of the secondary supply well would be to avoid potential impacts associated with over-pumping the primary supply well.</p> <p>The Water Supply Contingency Plan shall specify when the second supply well shall be used, what conditions would trigger necessary use of the second supply well, the person responsible for determining when to utilize the second supply well, and how such use shall be reported. The Environmental Monitor shall verify that the secondary supply well is installed and is capable of producing daily yields sufficient to supplement or replace the primary supply well in meeting construction water demand, as needed.</p>	BLM and County of Imperial	Prior to construction (plan) and during construction	Submit Water Supply Contingency Plan to BLM and County of Imperial for review and to the applicable Regional Water Quality Control Board for review and approval. If groundwater is identified as a water source, coordination efforts with the applicable Regional Water Quality Control Board shall be documented and provided to BLM and County of Imperial. Monitor in field during construction.
Water-3	<p><b>Prepare Groundwater Monitoring and Reporting Plan.</b> The Applicant shall develop and implement a Groundwater Monitoring and Reporting Plan prior to the onset of construction of</p>	BLM and County of Imperial	Prior to construction (plan)	Submit Groundwater Monitoring and Reporting Plan, prepared by a qualified

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	<p>the OWEF. In the preparation and implementation of this plan, the Applicant shall coordinate with the BLM for actions on BLM lands within the Ocotillo-Coyote Wells Sole Source Aquifer (SSA), and with Imperial County for actions on County lands within the Ocotillo-Coyote Wells SSA. In addition, the Applicant shall coordinate with San Diego County for activities within the Campo-Cottonwood SSA. The Groundwater Monitoring and Reporting Plan shall be prepared by a qualified hydrogeologist and submitted by the Applicant to the BLM for approval, and to the Counties of Imperial and San Diego for review and comment.</p> <p>The Groundwater Monitoring and Reporting Plan shall provide detailed methodology for monitoring background and site groundwater levels, water quality, and flow. Monitoring shall be performed during pre-construction, construction, and project operation with the intent to establish pre-construction and project-related groundwater level and water quality trends that can be quantitatively compared against observed and simulated trends near the project pumping wells and near potentially impacted existing private wells. The monitoring wells shall include locations up-gradient, lateral, and down-gradient of all project supply wells and a minimum of three offsite down-gradient wells. Water quality monitoring shall include annual sampling and testing for Total Dissolved Solids (TDS), which include minerals, salts, and metals dissolved in water. Water quality samples shall be drawn from project supply wells, one up-gradient well, and a minimum of two down-gradient offsite wells.</p> <p>During construction, quarterly water level monitoring data reports shall be submitted to the BLM for review and approval. Based on the results of the quarterly trend analyses, the Applicant shall determine if the project pumping has resulted in water level decline of five feet or more below the baseline trend at nearby private wells. If drawdown of five feet or more occurs at off-site wells, the Applicant shall immediately reduce groundwater pumping until water levels stabilize or recover, sustaining drawdown of less than five feet. Alternatively, the Applicant shall provide compensation to the well owner, including reimbursement of increased energy costs, or deepening the well or pump setting.</p> <p>The Plan shall include a schedule for submittal of quarterly monitoring data reports by the Applicant to the BLM. The BLM shall review these quarterly reports with consideration to the following criteria:</p> <ul style="list-style-type: none"> <li>• Where water level monitoring has indicated drawdown of five feet or more, the Applicant has immediately reduced groundwater pumping until water levels recover and stabilize or the Applicant has provided compensation to the well owner;</li> <li>• Sustained drawdown of five feet or more has not occurred at off-site wells; and</li> <li>• Substantial groundwater quality degradation has not occurred in water drawn from the project's supply well(s) or off-site wells (such as increased TDS concentrations that may result from over-pumping).</li> </ul> <p>Per the criteria listed above, the BLM shall determine whether additional mitigation is necessary to reduce adverse impacts to groundwater resources and groundwater wells</p>		and during construction, and operations	hydrogeologist, to BLM for approval and to the Counties of Imperial and San Diego for review and comment. Monitor in field during pre-construction, construction, and project operations to establish pre-construction and project-related groundwater level and water quality trends. During construction, submit quarterly water level monitoring data reports to BLM for review.

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	surrounding the project site. Such additional mitigation efforts, as determined by the BLM to be appropriate, may include but are not limited to the following: reduced rate of groundwater pumping; use of an alternative water source; water conservation activities.			
Water-4	<b>Install pervious and/or high-roughness groundcover where applicable.</b> Prior to the onset of construction of the OWEF, the Applicant shall submit a drainage design and hydrologic and hydraulic analysis to the BLM for review and approval, and to the Imperial County Department of Planning and Building for review and comment. In the design plans, groundcover for the new substation shall be comprised of a pervious and/or high-roughness material (for example, gravel) to the maximum extent feasible, in order to ensure maximum percolation of rainfall after construction. Detention/retention basins shall be installed to reduce local increases in runoff, particularly on frequent runoff events (up to 10-year frequency). Downstream drainage discharge points shall be provided with erosion protection and designed such that flow hydraulics exiting the site mimic the natural condition as much as possible.	BLM and County of Imperial	Prior to construction	Submit drainage design and hydrologic and hydraulic analysis to BLM for review and approval and to Imperial County Department of Planning and Building for review and comment.
Water-5	<b>Design onsite drainage improvements to maximize groundwater recharge.</b> Prior to onset of construction of the OWEF, the Applicant shall design on-site drainage improvements (and include on all applicable construction plans) to include the following components to maximize groundwater basin recharge: drainage from impervious surfaces (e.g., roads, driveways, buildings) shall be directed to a common drainage basin; the project shall design as few basins as possible for the entire development; and where feasible, mass grading and contouring shall be done in a way to direct surface runoff towards the above-referenced basins (and/or closed depressions).	BLM and County of Imperial	Prior to construction	Submit final facility siting design plans to BLM and the County of Imperial for review and approval indicating on-site drainage improvements.
Water-6	<b>Construction site dewatering management.</b> If groundwater is unexpectedly encountered during construction, operation, or decommissioning of the OWEF, dewatering activities shall be performed in compliance with the California Stormwater Quality Association (CASQA) Handbook for Construction or other similar guidelines, as approved by the BLM, for actions on BLM lands, and/or by Imperial County, for actions on County lands. The Applicant shall notify the BLM and applicable County (Imperial and/or San Diego) and RWQCB (Colorado River Basin RWQCB for activities at the proposed OWEF site, and/or San Diego Basin RWQCB for activities at the proposed water source in Pine Valley) at the onset of dewatering and submit written description of all executed dewatering activities, including steps taken to return encountered groundwater to the subsurface, upon the completion of dewatering activities at the affected site(s). The Environmental Monitor shall periodically check grading activities for groundwater exposure. Should groundwater be encountered, compliance with dewatering efforts shall be verified by the recognized local authority (RWQCB or Department of Planning and Building).	BLM, County of Imperial and/or County of San Diego, Colorado River Basin RWQCB (at the OWEF site) and/or San Diego Basin RWQCB (at proposed water source in Pine Valley)	During construction, operations, and decommissioning	If groundwater is unexpectedly encountered, notify BLM and the applicable county (Imperial and/or San Diego) and RWQCB Colorado River Basin RWQCB and/or San Diego Basin RWQCB) at the onset of dewatering. Submit written description of all executed dewatering activities upon completion of such activities at the affected site(s) to the above-mentioned agencies. Monitor in field during construction by periodically checking grading activities for groundwater exposure.
Water-7	<b>Develop master Drought Water Management and Water Conservation Education Programs.</b> Prior to the onset of construction of the OWEF, a master Drought Water Management Program shall be prepared by the Applicant and submitted to the BLM for approval. The Drought Water Management Program shall provide guidelines on how all	BLM	Prior to construction (programs) and during	Submit master Drought Water Management Program (for construction) and master Water Conservation Education Program (for operations) to

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	<p>future water use will be managed during "severe" drought year(s).</p> <p>During construction and operation, these measures would go into effect during periods of "severe" drought. Once it is determined that a "severe" drought condition exists, restricted (drought) water usage measures shall remain in effect until it is shown satisfactorily to the BLM that the "severe" drought condition no longer exists. This plan shall include, but is not limited to the following measures:</p> <ul style="list-style-type: none"> <li>• The definition of a "severe" drought year (as defined by the National Oceanic and Atmospheric Administration's (NOAA) Palmer Drought Severity method or other similarly recognized methodology);</li> <li>• Identification of general measures available to reduce water usage for future development (to be refined as needed for each use approved);</li> <li>• Identification of specific measures to be applied for landscape watering;</li> <li>• Determination of appropriate early triggers to determine when "severe" drought conditions exist and process for initiating additional water conservation measures for [tract] and future development.</li> </ul> <p>In congruence with the Drought Water Management Program and prior to the onset of construction of the OWEF, the Applicant shall develop and submit to the BLM for approval, a master Water Conservation Education Program for all future operators and employees for use during drought periods. Such a program shall be developed by an appropriate expert for each on-site activity using water. Once the program is developed, the Applicant shall also include the means by which this information will be disseminated to any future operators of the project. The Drought Water Management Program and Water Conservation Education Program shall be implemented throughout the construction, operation, and decommissioning phases of the OWEF.</p> <p>For any year that a "severe drought" state has been recognized, the Applicant shall submit a letter to the BLM by November 1 of that year identifying what measures were implemented to conserve water and to provide water conservation education, as well as the effectiveness of such measures.</p>		construction, operations, and decommissioning	BLM for review and approval. Monitor in field during construction to ensure measures in program are implemented during periods of "severe" drought until BLM determines the 'severe' drought condition no longer exists. During operations, for any year that a "severe drought" state has been recognized submit a letter to the BLM by November 1 of that year identifying what measures were implemented to conserve water and to provide water conservation education, as well as the effectiveness of such measures.
Water-8	<p><b>Flood and Erosion Structure Damage Protection.</b> Aboveground project features shall not be placed within waterway protection corridors (floodways) defined by city and county codes, and shall be located outside of known watercourses. Aboveground project features shall be designed and engineered to withstand potential flooding and erosion hazards. Although some project features may need to be placed within 100-year floodplain boundaries, or Flood Hazard Areas, they shall be designed per applicable floodplain development guidelines, including measures such as specially designed footings to withstand flooding associated with a 100-year flood event.</p>	BLM and County of Imperial	Prior to construction	Submit final facility siting design plans to BLM and the County of Imperial for review and approval indicating floodways, known watercourses, 100-year floodplain boundaries, and Flood Hazard Areas.

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Water-9	<p><b>Construction SWPPP Specifications.</b> A Construction SWPPP shall be developed for the OWEF. Notices of Intent (NOIs) would be filed with the State Water Resources Control Board (SWRCB) and the applicable RWQCBs (Colorado River Basin RWQCB for activities at the OWEF site, and/or San Diego Basin RWQCB for activities at the proposed water source in Pine Valley). A Waste Discharge Identification Number (WDID) would be obtained prior to the issuance of construction permits. The SWPPP shall be stored at the construction site for reference by construction personnel and for inspection review. The SWPPP shall include BMPs that would be adhered to during construction in order to stabilize graded areas and waterways, and reduce erosion and sedimentation. Such BMPs may include but are not limited to those described below.</p> <ul style="list-style-type: none"> <li>• Erosion minimizing efforts such as straw wattles, water bars, covers, silt fences, and sensitive area access restrictions (for example, flagging) that would be installed before clearing and grading begins.</li> <li>• Mulching, seeding, or other suitable stabilization measures would be used to protect exposed areas during construction activities.</li> <li>• During construction activities, measures would be in place to ensure that contaminants are not discharged from the construction sites.</li> <li>• A silting basin(s) would be established, as necessary, to capture silt and other materials, which might otherwise be carried from the site by rainwater surface runoff.</li> <li>• Straw wattles (or comparably effective devices [as determined by the on-site Civil Engineer, in consultation with the Environmental Monitor]) shall be placed on the downslope sides of the proposed work which would direct flows into temporary sedimentation basins.</li> <li>• The SWPPP shall include a Sedimentation and Erosion Control Plan to minimize the potential for project sediment to leave the OWEF site and result in downstream sedimentation.</li> <li>• All erosion control materials shall be biodegradable and natural fiber.</li> </ul> <p>All be BMPs required by the SWPPP shall be checked and maintained regularly and after all larger storm events. All remedial work shall be done immediately after discovery so sedimentation control devices remain in good working order during the entire construction phase. Proper implementation will be verified by the Environmental Monitor.</p>	BLM, County of Imperial, SWRCB, Colorado River Basin RWQCB, and San Diego Basin RWQCB	Prior to construction (SWPPP) and during construction	Submit SWPPP, including Sedimentation and Erosion Control Plan, to the BLM and County of Imperial for review. Submit SWPPP to SWRCB, Colorado River Basin RWQCB (for OWEF site), and San Diego Basin RWQCB (for water source in Pine Valley) for review and approval. Monitor in field during construction to ensure proper implementation of BMPs required by the SWPPP.
Water-10	<p><b>Accidental spill control and environmental training.</b> Prior to the onset of construction of the OWEF, the following specifications must be provided by the Applicant to the BLM, for actions on BLM lands, and to Imperial County, for actions on County lands: define areas where hazardous materials would be stored, where trash would be placed, where rolling equipment would be parked, fueled and serviced, and where construction materials such as reinforcing bars and structural steel members would be stored. The Applicant shall also prescribe hazardous materials handling procedures for reducing the potential for a spill during</p>	BLM and County of Imperial	Prior to construction (specifications) and during construction	Submit specifications for accidental spill control and environmental training, including an emergency response program to BLM (for federal lands) and County of Imperial (for County lands) for review and approval. These specifications may be included in the

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	<p>construction, and shall include an emergency response program to ensure quick and safe cleanup of accidental spills. These specifications may be included in the project's SWPPP, or may be included as a separate plan.</p> <p>Prior to and during construction, an environmental training program shall be established to communicate environmental concerns and appropriate work practices, including spill prevention and response measures, and SWPPP measures, to all field personnel. A monitoring program shall be implemented to ensure that the plans are followed during all construction, operations and maintenance, and decommissioning activities.</p> <p>Storage of fuels and hazardous materials shall be prohibited within 200 feet of surface water features and private groundwater supply wells, and within 400 feet of community or municipal groundwater supply wells (if it is determined that such wells exist on or in close proximity to the project site).</p> <p>During construction/ground disturbing activities and operation, all vehicles and equipment, including all hydraulic hoses, shall be maintained in good working order so that they are free of any and all leaks that could escape the vehicle or contact the ground, and to ensure that any leaks or spills during maintenance or storage can be easily and properly removed.</p> <p>Compliance will be verified by the Environmental Monitor and the local SWPPP authority at the time of construction.</p>			SWPPP (see MM Water-9). Submit documentation supporting the environmental training program to BLM and County of Imperial for review and approval. Monitor in field during construction. Compliance to be verified by the Environmental Monitor and the local SWPPP authority during construction.
<b>Wildland Fire Ecology</b>				
Fire-1	<p>The Applicant shall develop and implement a Fire Safety Plan for use during construction and decommissioning. The Applicant shall submit the Fire Safety Plan, along with maps of the project site and access roads, to BLM FIRE and the Imperial County Fire Marshall for review and approval prior to the issuance of a right of way grant. The Fire Safety Plan shall contain notification procedures and emergency fire precautions including, but not limited to, the following:</p> <ol style="list-style-type: none"> <li>All internal combustion engines used at the project site shall be equipped with spark arresters. Spark arresters shall be in good working order.</li> <li>Light trucks and cars shall be used only on roads where the roadway is cleared of vegetation. Mufflers on all cars and light trucks shall be maintained in good working order.</li> <li>Fire rules shall be posted on the project bulletin board at the contractor's field office and areas visible to employees.</li> <li>Equipment parking areas and small stationary engine sites shall be cleared of all extraneous flammable materials.</li> <li>Personnel shall be trained in the practices of the Fire Safety Plan relevant to their duties. Construction and maintenance personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats.</li> </ol>	BLM FIRE and Imperial County Fire Marshall	Prior to construction (plan), and during construction and decommissioning	Submit Fire Safety Plan, along with maps of the project site and access roads to BLM FIRE (for federal lands) and Imperial County Fire Marshall (for County lands) for review and approval prior to issuance of a right of way grant. Monitor in field during construction and decommissioning.

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	<p>f. The Applicant shall make an effort to restrict use of chainsaws, chippers, vegetation masticators, grinders, drill rigs, tractors, torches, and explosives to outside of the official fire season. When the above tools are used, water tanks equipped with hoses, fire rakes, and axes shall easily accessible to personnel.</p> <p>g. Smoking shall be prohibited in wildland areas and within 50 feet of combustible materials storage, and shall be limited to paved areas or areas cleared of all vegetation.</p> <p>h. Fires ignited onsite shall be immediately reported to BLM FIRE and the Imperial County Fire Department.</p> <p>i. The engineering, procurement, and construction contract(s) for the proposed project shall clearly state the requirements of this mitigation measure.</p>			
Veg-1d	See Vegetation Resources, above.	---	---	---
<b>Wildlife Resources</b>				
Air-1	See Air Resources, above.	---	---	---
Veg-1a	See Vegetation Resources, above.	---	---	---
Veg-1d	See Vegetation Resources, above.	---	---	---
Veg-2a	See Vegetation Resources, above.	---	---	---
Veg-2b	See Vegetation Resources, above.	---	---	---
Wild-1a	<p>Prior to ground-disturbing activities, an individual will be designated and approved by the BLM and USFWS as a Designated Biologist (i.e., field contact representative). A Designated Biologist will be employed for the period during which on-going construction and post-construction monitoring and reporting by an approved biologist is required, such as annual reporting on habitat restoration. Each successive Designated Biologist will be approved by the BLM's Authorized Officer (i.e., BLM field manager, El Centro). The Designated Biologist will have the authority to ensure compliance with Conservation Measures for the Peninsular bighorn sheep (PBS) set forth in the Biological Opinion (BO; currently being drafted for the proposed OWEF) and with flat-tailed horned lizard (FTHL) mitigation measures included herein and will be the primary agency contact for the implementation of these measures. The Designated Biologist will have the authority and responsibility to halt any proposed OWEF activities that are in violation of the BO Conservation Measures or Mitigation Measures. A detailed list of responsibilities of the Designated Biologist is summarized below. To avoid and minimize effects to biological resources, the Designated Biologist will:</p> <ul style="list-style-type: none"> <li>• Notify BLM's Authorized Officer and the USFWS at least 14 calendar days before the initiation of ground disturbing activities.</li> <li>• Immediately notify BLM's Authorized Officer and the USFWS in writing if the Applicant does not comply with any BO Conservation Measures or Mitigation Measures including, but not limited to, any actual or anticipated failure to implement BO Conservation Measures or Mitigation Measures within the periods specified.</li> <li>• Conduct compliance inspections daily during on-going construction as clearing, grubbing,</li> </ul>	BLM and USFWS	Prior to construction (resumes), during and post-construction	Prior to construction, submit resumes of recommended individual for Designated Biologist position to the BLM and USFWS for review and approval. Designated Biologist to monitor in field during construction and post-construction, as applicable.

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	<p>and grading are completed, and submit a monthly compliance report to BLM's Authorized Officer until construction is complete.</p> <ul style="list-style-type: none"> <li>Evaluate effectiveness of pre-construction FTHL surveys in locating FTHLs and recommend changes to the pre-construction FTHL survey methods based on the field results.</li> </ul>			
Wild-1b	<p>Biological Monitor(s) will be employed to assist the Designated Biologist in conducting preconstruction surveys and monitoring ground disturbance, grading, construction, O&amp;M, decommissioning, and restoration activities. The Biological Monitor(s) will have sufficient education and field experience to understand PBS and FTHL biology, have, experience conducting FTHL field monitoring, be able to identify PBS, PBS sign, FTHL, and FTHL scat, and be able to identify and follow FTHL tracks. The Designated Biologist will submit a resume, at least three references, and contact information for each prospective Biological Monitor(s) to the BLM and USFWS for approval. To avoid and minimize effects to biological resources, the Biological Monitor(s) will assist the Designated Biologist and Bighorn Sheep Monitor with the following:</p> <ul style="list-style-type: none"> <li>Be present during construction activities that take place in PBS Essential Habitat to prevent or minimize harm or injury to PBS.</li> <li>Be present during construction activities that take place in FTHL habitat to prevent or minimize harm or injury to FTHL. Activities of the Biological Monitor(s) include, but are not limited to, ensuring compliance with all avoidance and minimization measures, monitoring for FTHLs and removing them from harm's way, and checking the staking/flagging of all disturbance areas to be sure that they are intact and that all construction activities are being kept within the staked/flagged limits.</li> <li>At the end of each work day, inspect all potential wildlife pitfalls (e.g., trenches, bores, other excavations) for wildlife and remove wildlife as necessary. If the potential pitfalls will not be immediately backfilled following inspection, the Biological Monitor will ensure that the construction crew slopes the ends of the excavation (3:1 slope) to provide wildlife escape ramps or will ensure that the construction crew completely and securely covers the excavation to prevent wildlife entry.</li> <li>During construction, examine areas of active surface disturbance periodically, at least hourly, when surface temperatures exceed 29 degrees Celsius (85 degrees Fahrenheit) for the presence of FTHL and remove them per Construction Measure Wild-1r below.</li> <li>Inspect the site to help ensure trash and food-related waste is placed in closed-lid containers and to ensure that workers do not feed wildlife.</li> </ul>	BLM and USFWS	Prior to construction (resumes), during construction	Prior to construction, submit resumes, references, and contact information of recommended Biological Monitor(s) to the BLM and USFWS for review and approval. Biological Monitor(s) to monitor in field during construction.
Wild-1c	<p>Prior to proposed OWEF initiation, the Designated Biologist will implement a WEAP that will be available in English and Spanish. Wallet-sized cards summarizing the information will be provided to all construction and O&amp;M personnel. The WEAP will include the following:</p> <ul style="list-style-type: none"> <li>Biology and status of the PBS, FTHL, special status snake species, burrowing owl, other nesting special status birds, and American badger.</li> </ul>	BLM , USFWS, CDFG	Prior to construction	Prior to project initiation, submit WEAP to BLM for review and approval and to USFWS and CDFG for review. Designated Biologist to monitor in field during construction.

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<b>MM No.</b>	<b>Mitigation Measure</b>	<b>Monitoring Responsibility</b>	<b>Timing</b>	<b>Monitoring/Reporting Method</b>
	<ul style="list-style-type: none"> <li>• Measures to reduce potential effects to the PBS, FTHL, special status snake species, burrowing owl, other nesting special status birds, and American badger.</li> <li>• An explanation of the function of flagging that designates authorized work areas.</li> <li>• Actions and reporting procedures to be used if PBS, FTHL, special status snake species, burrowing owl, other nesting special status birds, or American badger are encountered.</li> <li>• Driving procedures and techniques to reduce wildlife species mortality on roads.</li> <li>• The importance of avoiding the introduction of invasive weeds onto the proposed OWEF site and surrounding areas.</li> <li>• The importance of containing and properly disposing of all trash.</li> </ul>			
Wild-1d	The boundaries of all areas to be disturbed (including staging areas, access roads, and sites for temporary placement of construction materials and spoils) will be delineated with stakes and flagging prior to construction activities. Spoils will be stockpiled in disturbed areas lacking native vegetation or where habitat quality is poor. To the extent possible, disturbance of shrubs and surface soils due to stockpiling will be minimized. All disturbances, vehicles, and equipment will be confined to the staked and flagged areas. If fencing is used instead of stakes and flagging, the design of the fencing shall be done in coordination with the Wildlife Agencies. Furthermore, the Biological Monitor(s) will be responsible for monitoring to ensure that all delineated disturbance boundaries remain intact and shall monitor for any disturbance outside of the boundaries. If fencing is used, it will be the responsibility of the Biological Monitor(s) to determine if any increased impacts are occurring to FTHL by providing fence perches for FTHL predators.	BLM and County of Imperial	Prior to construction	Monitor in field
Wild-1e	Speed limits along all access roads will not exceed 15 miles per hour in order to minimize dust during construction and O&M activities. A Fugitive Dust Control Plan will be implemented to address fugitive dust during construction (see Mitigation Measure Air-1 in section 4.2.10).	BLM and County of Imperial	During construction	Monitor in field during construction.
Wild-1f	To the maximum extent practicable, grading or other ground-disturbing activities in FTHL habitat will be conducted during the active season, which is defined as March 15 through November 15, or when ground temperatures are between 24 degrees Celsius (75 degrees Fahrenheit) and 38 degrees Celsius (100 degrees Fahrenheit). If grading or other ground-disturbing activities cannot be conducted during this time, any FTHLs found shall be removed to nearby habitat away from proposed OWEF components and roads where suitable burrowing habitat exists. The Designated Biologist or Biological Monitor(s) will be present during any grading or other ground-disturbing activities outside the active season and shall be responsible for removing FTHL from harm's way in accordance with Wild-1g.	BLM and County of Imperial	During construction	Monitor in field during construction.

<b>Mitigation Monitoring and Reporting Program</b>				
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Wild-1g	<p>FTHLs will be removed from harm's way during all construction activities. FTHL removal will be conducted under the supervision of the Designated Biologist and by two or more Biological Monitors when construction activities are being conducted in occupied FTHL habitat. To the extent feasible, methods to find FTHLs will be designed to achieve a maximal capture rate and will include, but not be limited to, using strip transects, tracking, and raking around shrubs. During construction, the minimum survey effort will be 30 minutes per 0.40 hectare (1 acre). Persons that handle FTHLs will first obtain all necessary permits and authorization from the CDFG. FTHL removal surveys also will include:</p> <ul style="list-style-type: none"> <li>• Accurate records maintained by the Biological Monitors for each relocated FTHL including sex, snout-vent length, weight, air temperature, location, date, time of capture and release, a close-up photo of the lizard, and a photo of the habitat where it was first encountered. To the extent feasible, a sample of the lizard scat will be collected. A Horned Lizard Observation Data Sheet and a Project Reporting Form, from Appendix 8 of the FTHL Rangewide Management Strategy (FTHL Interagency Coordinating Committee [ICC] 2003) will be completed. During construction, quarterly reports describing FTHL removal activity will be submitted to the BLM, USFWS, and CDFG.</li> <li>• The removal of FTHLs out of harm's way, including those found on access or maintenance roads, will include their relocation to nearby suitable burrowing habitat away from proposed OWEF components and roads. Relocated FTHLs will be placed in the shade of a large shrub in undisturbed habitat. The Designated Biologist or Biological Monitor will be allowed some judgment and discretion when relocating lizards to maximize survival of FTHLs found on the proposed OWEF site.</li> </ul>	BLM and County of Imperial	During construction	Monitor in field during construction. Obtain necessary permits and authorizations from CDFG and USFWS to handle FTHLs, if required. Submit to BLM and County of Imperial for review.
Wild-1h	<p>To compensate the loss of occupied FTHL habitat, the FTHL Rangewide Management Strategy allows for the purchase of FTHL habitat and/or monetary compensation, as determined by the FTHL Interagency Coordinating Committee. Permanent impacts to 23.9 acres and temporary impacts to 108.4 acres of occupied FTHL habitat from the Proposed Action will be mitigated at a 1:1 ratio. If off-site purchase of FTHL habitat is proposed, the Applicant will obtain approval of the BLM, FTHL Interagency Coordinating Committee, and Wildlife Agencies prior to the purchase, and will ensure long-term management and protection of the land through the following:</p> <ul style="list-style-type: none"> <li>• Prepare a Property Assessment Report (PAR) tailored to the specific acquisition to determine the long-term management funding; and</li> <li>• The land will be deeded and transferred to the BLM and managed consistent with the management activities outlined in the FTHL Rangewide Management Strategy.</li> </ul>	BLM, FTHL Interagency Coordinating Committee, and Wildlife Agencies (USFWS, CDFG)	Prior to construction	Submit Property Assessment Report to BLM, FTHL Interagency Coordinating Committee, and Wildlife Agencies (USFWS, CDFG) for review and approval.
Wild-1i	<p>Minimize night lighting during construction by using shielded directional lighting that is pointed downward thereby avoiding illumination to adjacent natural areas and the night sky. Night lighting shall only be used when necessary for worker safety, and if used for security purposes, shall be motion or heat activated.</p>	BLM and County of Imperial	During construction	Monitor in field during construction.

<b>Mitigation Monitoring and Reporting Program</b>				
<b>MM No.</b>	<b>Mitigation Measure</b>	<b>Monitoring Responsibility</b>	<b>Timing</b>	<b>Monitoring/Reporting Method</b>
Wild-1j	Implement a Raven Control Plan (approved by BLM and USFWS prior to construction) for the portion of the proposed OWEF within occupied (and assumed occupied) FTHL habitat. The Raven Control Plan will identify the purpose of conducting raven control and include, at a minimum, training on how to identify raven nests and how to determine whether a nest belongs to a raven or a raptor species; describe the seasonal limitations on disturbing nesting raptors; describe raven control methods to be employed (e.g. perching and nesting deterrents); and describe procedures for documenting the activities on an annual basis. The plan will provide details on the specific measures for storage and disposal of all litter and trash to discourage scavengers that may prey on the FTHL. The methods and reporting requirements will be developed to be consistent with the monitoring and reporting requirements of the Raven Control Plan prepared for the Sunrise Powerlink project, which crosses through the proposed OWEF.	BLM	Prior to construction (plan) and during construction.	Monitor in field during construction to ensure implementation of the Raven Control Plan.
Wild-1i	Prior to the start of construction, survey for the burrowing owl will be conducted during the burrowing owl breeding season in accordance with the California Burrowing Owl Consortium (CBOC) Guidelines (1993). If it is discovered that there is an occupied burrowing owl burrow, construction activities will be halted, and the California Department of Fish and Game, in Ontario at (909) 484-0167, MCRodriguez@dfg.ca.gov and the BLM, El Centro, Resources Section, (760) 337-4400 will be notified immediately. Also see Wild-2a.	BLM and County of Imperial	Prior to construction	Submit survey reports to BLM and County of Imperial for review.
Wild-1m	Construction piping or any other construction material with a diameter greater than three inches will be capped or covered if the piping or materials are to be stored in staging areas or temporary impact areas for more than three days. If construction piping or construction materials greater than three inches in diameter are not covered or capped, they will be inspected by the Designated Biologist or Biological Monitor prior to being moved or buried.	BLM and County of Imperial	During construction	Monitor in field during construction.
Wild-1n	The loss of 19.5 acres of burrowing owl foraging habitat within 300 feet of the 3 known occupied burrows will be mitigated at a minimum 1:1 ratio through a combination of off-site habitat compensation, on-site revegetation of temporary impact areas, and/or on-site or off-site restoration of disturbed habitat. Actual mitigation acreage requirements will depend on the pre-construction burrowing owl surveys to be conducted in accordance with Mitigation Measure Wild-2a. If off-site purchase of burrowing owl habitat is proposed, the Applicant will obtain approval of the BLM and CDFG prior to the purchase, and will ensure long-term management and protection of the land through a conservation easement and funding to provide long-term management.	BLM, USFWS, CDFG	Prior to construction (plan) and post-construction	Submit HRRP to BLM, USFWS, and CDFG for review and approval. Monitor in field.
Wild-1o	The Applicant will implement an Eagle Conservation Plan to address proposed OWEF impacts to golden eagles. The Applicant will prepare and submit an Eagle Conservation Plan to the BLM and Wildlife Agencies for review and approval prior to initiation of proposed OWEF construction. The Eagle Conservation Plan will be prepared in accordance with the Draft Eagle Conservation Plan Guidance (USFWS 2011b). The Eagle Conservation Plan will describe the golden eagle studies completed for the proposed OWEF; a risk analysis; advanced conservation practices to be implemented during operations, including a descrip-	BLM and Wildlife Agencies (USFWS, CDFG)	Prior to construction (plan) and post-construction	Submit Eagle Conservation Plan to BLM and Wildlife Agencies (USFWS, CDFG) for review and approval. Monitor post-construction per the monitoring and reporting procedures in the plan.

<b>Mitigation Monitoring and Reporting Program</b>				
<b>MM No.</b>	<b>Mitigation Measure</b>	<b>Monitoring Responsibility</b>	<b>Timing</b>	<b>Monitoring/Reporting Method</b>
	tion of the adaptive management strategy for the proposed OWEF and compensatory mitigation; and post-construction monitoring and reporting procedures for golden eagles.			
Wild-1p	The Applicant will implement a Bird and Bat Conservation Strategy to address proposed OWEF impacts to special status avian and bat species and will submit the plan to the BLM, USFWS, and CDFG for review and approval prior to initiation of proposed OWEF construction. The Bird and Bat Conservation Strategy will be prepared in accordance with the interim guidance provided by USFWS (2010d). The Bird and Bat Conservation Strategy will describe proposed OWEF design features and advanced conservation practices to be used to minimize the risk of collision pre-construction, during construction, and during O&M. The plan will include monitoring, adaptive management, and reporting procedures. The post-construction monitoring methods will be based on the California Guidelines for Reducing Impacts to Birds and Bats from Wind Energy Development (CEC 2007).	BLM, USFWS, CDFG	Prior to construction (plan) and post-construction.	Submit Avian and Bat Protection Plan to BLM, USFWS, and CDFG for review and approval. Monitor in field post-construction.
Wild-1q	Temporary impacts to 124.1 acres of USFWS Essential Habitat for PBS from the Proposed Action will be mitigated at a 1:1 ratio through revegetation of all temporary impact areas. Prior to the start of construction, a Habitat Restoration/Revegetation Plan (HRRP) will be approved in writing by BLM, USFWS, and CDFG in accordance with Mitigation Measure Veg-2b (see Veg-2b for details). The HRRP will address revegetation of habitats for special status wildlife species, including but not limited to PBS, FTHL, and burrowing owl. If after five years of monitoring, there are areas that do not meet the success criteria outlined in the HRRP, these areas will be compensated off site at a 1:1 ratio of equal or better quality habitat compared to what was impacted, in accordance with Mitigation Measure Veg-2a.	BLM, USFWS, CDFG	Prior to construction (plan) and post-construction	Submit HRRP to BLM, USFWS, and CDFG for review and approval. Monitor in field.
Wild-1r	The Proposed Action's permanent impacts to 43.1 acres of USFWS Essential Habitat for PBS will be compensated at a 1:1 ratio by purchasing or restoring Essential Habitat from private landowners, which will be made permanently available for PBS. "Available" is defined as habitat located in or immediately adjacent to the Essential Habitat line, as delineated in the Recovery Plan for Bighorn Sheep in the Peninsular Ranges, California (USFWS 2000).	BLM, USFWS, CDFG	Prior to construction (plan) and post-construction	Submit HRRP to BLM, USFWS, and CDFG for review and approval. Monitor in field.
Wild-1s	Prior to construction, a Bighorn Sheep Mitigation and Monitoring Plan will be submitted to the BLM, USFWS, and CDFG for review and approval. The monitoring plan will describe the monitoring and reporting procedures and the construction limitations to be implemented if sheep are observed in the proposed OWEF site. The monitoring procedures must comply with the standards set by USFWS and CDFG for performing bighorn sheep monitoring.	BLM, USFWS, CDFG	Prior to construction (plan) and during construction.	Submit Bighorn Sheep Mitigation and Monitoring Plan to BLM, USFWS, and CDFG for review and approval. Monitor in field during construction.
Wild-1t	A biological consultant approved by the BLM, USFWS, and CDFG will be retained by the Applicant to serve as the Bighorn Sheep Monitor of construction activities within USFWS Essential Habitat on the proposed OWEF site, in accordance with the Bighorn Sheep Mitigation and Monitoring Plan for the proposed OWEF. The Bighorn Sheep Monitor will be present if proposed OWEF activities are planned within 300 meters (approximately 1,000 feet) of Essential Habitat. If PBS are observed within the Action Area, no construction activities will be conducted within 1,000 feet of the sheep until the Bighorn Sheep Monitor verifies that the sheep have moved to at least 1,000 feet from planned activities. If the Bighorn Sheep Monitor	BLM, USFWS, CDFG	Prior to construction (resumes), during construction	Prior to construction, submit resumes of recommended Bighorn Sheep Monitor to the BLM, USFWS, and CDFG for review and approval. Bighorn Sheep Monitor to monitor in field during construction. Submit daily monitoring reports.

<b>Mitigation Monitoring and Reporting Program</b>				
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	determines that proposed OWEF activities are unlikely to adversely affect or disrupt normal behavior of the PBS, planned activities may proceed. If the Bighorn Sheep Monitor is not present on site when sheep are observed, all proposed OWEF activities within 1,000 feet of Essential Habitat will stop, and the Bighorn Sheep Monitor will be contacted immediately for guidance on how to proceed with planned activities. The Bighorn Sheep Monitor will have complete access to the Applicant's proposed ABOCC observation tower and radar and camera system. The Bighorn Sheep Monitor will prepare daily monitoring reports that will be submitted to the Designated Biologist and BLM, as well as to the USFWS and CDFG.			
Wild-1u	<p>The Designated Biologist or Biological Monitor(s) will evaluate and implement the best measures to reduce FTHL and other wildlife species mortality along access and maintenance roads, particularly outside the active period (March 15 through November 15). These measures will include:</p> <ul style="list-style-type: none"> <li>• A speed limit of 15 miles per hour in occupied FTHL habitat, and all vehicles must remain on designated access/maintenance roads.</li> <li>• Pedestrian access outside the limits of the designated access/maintenance roads is permitted year-round as long as no ground disturbing activities take place (e.g., vegetation treatment and weed management or other activities that would require soil disturbance beyond pedestrian footprints).</li> <li>• Any O&amp;M activity that may result in ground disturbance outside the designated access/maintenance roads will be conducted during the FTHL active period whenever feasible.</li> <li>• If any O&amp;M activity must be conducted outside the FTHL active period that may result in ground disturbance, such as weed management or vehicular access off of a designated access/maintenance road, the Designated Biologist or a Biological Monitor will be present during such activity to ensure that no FTHL mortality results.</li> <li>• If fencing is installed during any O&amp;M activity, the design of the fencing shall be done in coordination with the Wildlife Agencies. Furthermore, the Biological Monitor(s) will be responsible for monitoring to ensure that all fencing remains intact and will monitor for any disturbance outside of the fencing. It will also be the responsibility of the Biological Monitor(s) to determine if any increased impacts are occurring to FTHL by providing fence perches for FTHL predators.</li> </ul>	BLM and County of Imperial	During operations	Monitor in field.
Wild-1v	<p>No later than January 31 of each year the proposed OWEF remains in operation, the Designated Biologist will provide the BLM's Authorized Officer, USFWS, CDFG, and FTHL Interagency Coordinating Committee an annual FTHL Status Report that will include at a minimum:</p> <ul style="list-style-type: none"> <li>• A general description of the status of the Action Area.</li> <li>• Information from the Annual Compliance Report documenting compliance/non-compliance with each avoidance and minimization measure.</li> <li>• An assessment of the effectiveness of each avoidance and minimization measure.</li> <li>• A completed Project Reporting Form from Appendix 8 of the FTHL Rangewide</li> </ul>	BLM, USFWS, CDFG, and FTHL Interagency Coordinating Committee	During operations	Submit annual FTHL Status Report.

<b>Mitigation Monitoring and Reporting Program</b>				
<b>MM No.</b>	<b>Mitigation Measure</b>	<b>Monitoring Responsibility</b>	<b>Timing</b>	<b>Monitoring/Reporting Method</b>
	<p>Management Strategy (FTHL ICC, 2003).</p> <ul style="list-style-type: none"> <li>• A summary of information regarding any FTHL mortality in conjunction with the Wildlife Mortality Reporting Program (Mitigation Measure Wild-1hh).</li> <li>• Recommendations on how the avoidance and minimization measures might be changed to more effectively avoid or minimize future effects to FTHL.</li> </ul>			
Wild-1w	Implement the Raven Control Plan.	BLM and County of Imperial	During operations	Monitor in field.
Wild-1x	<p>An annual report will be prepared by the Designated Biologist and submitted to the relevant resource agencies documenting the implementation of the following programs/plans as well as compliance/non-compliance with each avoidance and minimization measure.</p> <ul style="list-style-type: none"> <li>• Weed Management Plan</li> <li>• WEAP</li> <li>• HRRP</li> <li>• Wildlife Mortality Reporting Program</li> <li>• Raven Control Plan</li> <li>• Bighorn Sheep Mitigation and Monitoring Plan</li> <li>• Burrowing Owl Mitigation and Monitoring Plan</li> </ul>	BLM, County of Imperial, USFWS, CDFG	During operations	Submit annual report to relevant resource agencies.
Wild-1y	The HRRP will be implemented in accordance with Mitigation Measure Veg-2b.	BLM, USFWS, CDFG	During operations	Submit HRRP to BLM, USFWS, and CDFG for review and approval. Monitor in field.
Wild-1z	Implement the Integrated Weed Management Plan. Invasive weeds and non-native plants will be controlled during O&M for the life of the proposed OWEF according to the measures provided in the proposed OWEF's Integrated Weed Management Plan.	BLM and County of Imperial	Prior to construction (plan), during and post-construction	Submit Integrated Weed Management Plan to BLM and the County of Imperial for review and approval prior to construction. Monitor in field during and after construction to ensure compliance with the plan.
Wild-1aa	Night lighting will be minimized by using directional lighting that is shielded down away from the surrounding natural areas and the night sky. Night lighting during O&M will be minimized to the amount necessary to meet FAA standards. Lighting on wind turbine generators (WTGs) will include the minimum number of flashes and the briefest flash duration to meet FAA standards. The proposed directional motion activated security lighting at the O&M building will be shielded down.	BLM and County of Imperial	During operations	Monitor in field.
Wild-1bb	Implement the Bird and Bat Conservation Strategy.	BLM and County of Imperial	During operations	Monitor in field.
Wild-1cc	Project transmission will conform to Avian Power Line Interaction Committee (APLIC) standards for collision-reducing techniques (APLIC 2006).	BLM and County of Imperial	Prior to construction	Project design documents shall be submitted to the BLM and County of Imperial for review and approval.

<b>Mitigation Monitoring and Reporting Program</b>				
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Wild-1dd	A biological consultant approved by the BLM, USFWS, and CDFG will be retained by the Applicant to conduct a post-construction bird and bat species mortality monitoring program in accordance with the monitoring and reporting methods of the Eagle Conservation Plan (Mitigation Measure Wild-1o) and Bird and Bat Conservation Strategy (Mitigation Measure Wild-1p).	BLM, USFWS, CDFG	During operations	Monitor in field. Submit monitoring reports.
Wild-1ee	Prepare and receive approval from the BLM of a Wildlife Mortality Reporting Program. This program will be implemented during O&M and calls for the identification and reporting of any dead or injured animals observed by personnel conducting O&M activities. Reporting is necessary during construction and O&M to demonstrate compliance with the avoidance and minimization measures, to assess the effectiveness of the measures, and to make recommendations, if necessary, for future compliance. An appropriate reporting format will be developed in coordination with the BLM and USFWS.	BLM and USFWS	During operations	Submit Wildlife Mortality Reporting Program to BLM for review and approval. Monitor in field. Submit monitoring reports, as necessary.
Wild-1ff	Implement the Eagle Conservation Plan.	BLM and County of Imperial	During operations	Monitor in field.
Wild-1gg	<p>The Designated Biologist, Biological Monitor(s), and/or Bighorn Sheep Monitor shall evaluate and implement the best measures to minimize PBS disturbance. These measures will include:</p> <ul style="list-style-type: none"> <li>The Bighorn Sheep Monitor will monitor major O&amp;M activities (e.g., major turbine component replacement or grading—not turbine operation or regular maintenance inspections) in accordance with the measures described in the Bighorn Sheep Mitigation and Monitoring Plan. If PBS are observed or detected by the Designated Biologist, Monitoring Biologist, or Bighorn Sheep Monitor within the Project Area, these types of major O&amp;M activities will not be conducted within 1,000 feet of the sheep until the Bighorn Sheep Monitor verifies that the sheep have moved to at least 1,000 feet from the planned major O&amp;M activities. If the Bighorn Sheep Monitor determines that proposed OWEF activities are unlikely to adversely affect the sheep or disrupt normal behavior, these activities could proceed. If the Bighorn Sheep Monitor is not present on site when sheep are observed, all of these types of major O&amp;M activities will stop and the Bighorn Sheep Monitor will be contacted immediately for guidance on how to proceed with planned activities. O&amp;M activities could proceed when the Bighorn Sheep Monitor/Designated Biologist verifies that the sheep have moved to at least 1,000 feet from the major O&amp;M activities or determines that proposed OWEF activities are unlikely to adversely affect the sheep or disrupt normal behavior.</li> <li>The Applicant will employ a biologist at the ABOCC observation tower full time for the first 10 years of operation. The success of the monitoring will be determined by the monitoring biologist in coordination with USFWS, CDFG, and BLM. The monitoring biologist will be approved by the BLM and USFWS. The two primary responsibilities of the biologist will be to monitor for PBS and raptors. The Merlin Avian Radar System will be placed on the ABOCC observation tower during O&amp;M and will be programmed to monitor the sky for</li> </ul>	BLM and County of Imperial	During operations	Monitor in field.

<b>Mitigation Monitoring and Reporting Program</b>				
<b>MM No.</b>	<b>Mitigation Measure</b>	<b>Monitoring Responsibility</b>	<b>Timing</b>	<b>Monitoring/Reporting Method</b>
	<p>raptors and not the ground for PBS.</p> <ul style="list-style-type: none"> <li>• All vehicles must remain on designated access/maintenance roads.</li> <li>• The biological consultant retained to collect data on PBS movements in the Project Area during the construction phase (Mitigation Measure Wild-2e) will also be retained to collect data on PBS movements in the project area during the first five years of operation of the OWEF.</li> </ul>			
Wild-1hh	<p>No later than January 31 of each of the first three years the OWEF remains in operation, the Designated Biologist will provide the BLM's Authorized Officer, USFWS, and CDFG an annual PBS Status Report that will include at a minimum:</p> <ul style="list-style-type: none"> <li>• A general description of the status of the Action Area.</li> <li>• Information from the Annual Compliance Report documenting compliance/non-compliance with each avoidance and minimization measure.</li> <li>• An assessment of the effectiveness of each avoidance and minimization measure.</li> <li>• A summary and map of PBS sightings in the Action Area.</li> <li>• Recommendations on how the avoidance and minimization measures might be changed to more effectively avoid or minimize future effects to PBS.</li> </ul>	BLM, USFWS, CDFG	During operations	Submit annual PBS Status Report to BLM, USFWS, and CDFG.
Wild-1ii	<p>The Applicant will participate in the coordination effort between BLM and proponents of other planned renewable energy projects in or near Peninsular bighorn sheep habitat to fund the design and construction of a wildlife overpass across I-8, at locations determined by species experts and the wildlife agencies to be most likely to benefit the species. An overpass would reduce the risk of mortality from collision with vehicles on I-8 and promote regional connectivity. Further, it would support the affected population's current southward expansion that is a critical part of population recovery.</p>	BLM, USFWS	During operations	Submit documentation of participation to BLM.
Wild-2a	<p>A survey will be conducted within 30 days prior to the initiation of construction or major O&amp;M activities (e.g., major turbine component replacement or grading—not turbine operation or regular maintenance inspections) by a qualified biologist to determine the presence or absence of the burrowing owl in the work zone plus 250 feet beyond. If it is discovered that there is an occupied burrowing owl burrow, activities will be halted, and the California Department of Fish and Game, in Ontario at (909) 484-0167, MCRodriguez@dfg.ca.gov and the BLM, El Centro, Resources Section, (760) 337-4400 will be notified immediately. No disturbance will occur within 250 feet of occupied burrows during the breeding season (February 1 through August 31) or within 50 meters (approximately 160 feet) of occupied burrows during the non-breeding season (September 1 through January 31; CDFG 1995). The results of the burrowing owl survey will be provided to BLM and CDFG for review and concurrence prior to the start of construction or major O&amp;M activities.</p> <p>Passive relocation of owls will be implemented prior to construction or major O&amp;M activities only at the direction of the CDFG, and only if the above-described occupied burrow disturbance absolutely cannot be avoided (e.g., due to physical or safety constraints).</p>	BLM and CDFG	Prior to construction	Submit survey reports to BLM and CDFG for review and concurrence. Submit Burrowing Owl Mitigation and Monitoring Plan to BLM and CDFG for review and approval prior to passive relocation.

<b>Mitigation Monitoring and Reporting Program</b>				
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	Relocation of owls will only be implemented during the non-breeding season (September 1 through January 31; CDFG, 1995). A Burrowing Owl Mitigation and Monitoring Plan will be submitted to the BLM's Authorized Officer and CDFG for review and approval prior to construction, major O&M activities, and passive relocation.			
Wild-2b	Vegetation clearing will take place outside of the general avian breeding season (January 15 through August 15), when feasible. If vegetation clearing cannot occur outside the avian breeding season, prior to construction, a Designated Biologist/Biological Monitor, approved by the BLM, with a minimum of three years of experience conducting migratory bird surveys and implementing the requirements of the Migratory Bird Treaty Act (MBTA) will conduct a preconstruction migratory bird nesting survey no more than 7 days prior to vegetation clearing. If any active nest is located, the nest area will be flagged or otherwise marked for avoidance, and a 200-foot buffer zone shall be flagged. A 300-foot buffer will be established for federally listed bird species' nests, and a 500-foot buffer will be established for nesting raptors. No work activity shall occur within these avoidance buffer areas until the Designated Biologist/Biological Monitor determines that the fledglings are independent of the nest or has verified nest failure. If no active nests are found, clearing can proceed. The Designated Biologist/Biological Monitor will submit the results of the pre-construction nesting bird surveys to BLM and appropriate agencies.	BLM and appropriate agencies (USFWS, CDFG)	Prior to construction	If vegetation clearing cannot occur outside the avian breeding season, submit pre-construction nesting bird surveys to BLM and appropriate agencies. Monitor in field.
Wild-2c	A qualified biologist will survey for American badger concurrent with the pre-construction survey for burrowing owl. If badgers are detected, the biologist will passively relocate badgers out of the work area prior to construction if feasible. If an active den is detected within the work area, the Applicant will avoid the den, if feasible, until the qualified biologist determines the den is no longer active. Dens that are determined to be inactive by the qualified biologist will be collapsed by hand to prevent occupation of the den between the time of the survey and construction activities.	BLM and CDFG	Prior to construction	Submit survey report to BLM and CDFG for review and concurrence.
Wild-2d	Construction of WTGs within 1,200 meters (approximately 3,900 feet) of PBS lambing sites will be precluded during the PBS lambing season (i.e., January 1 through June 30). For the Proposed Action, 8 WTGs (WTGs 22-28 and WTG 77) are proposed within 1,200 meters of 2010 lambing sites in the I-8 Island (i.e., the area between the eastbound and westbound lanes of I-8, the northern portion of which is in the Project Area), and there is direct line of sight between the lambing areas and the proposed WTGs. In addition, four additional WTGs (WTGs 19-21 and WTG 29) would not be constructed during the lambing season because the access road to these WTGs would also be restricted from use by heavy equipment during the lambing season. Furthermore, site preparation and use of the staging area adjacent to the existing railroad will be precluded during the lambing season. The Bighorn Sheep Monitor will coordinate with USFWS and CDFG to help determine the locations of any nearby lambing sites being used prior to and during the construction period of the proposed OWEF.	BLM and County of Imperial	During construction	Monitor in field during construction.

<b>Mitigation Monitoring and Reporting Program</b>				
<b>MM No.</b>	<b>Mitigation Measure</b>	<b>Monitoring Responsibility</b>	<b>Timing</b>	<b>Monitoring/Reporting Method</b>
Wild-2e	A biological consultant approved by the BLM and wildlife agencies will be retained by the Applicant to collect data on PBS movements in the Project Area during the construction phase. The study methods will be described in the Bighorn Sheep Mitigation and Monitoring Plan and submitted to the BLM, USFWS, and CDFG for review and approval.	BLM, USFWS, CDFG	Prior to construction (resumes), during construction	Prior to construction, submit resumes of recommended biological consultants for PBS to the BLM, USFWS, and CDFG for review and approval. Submit Bighorn Sheep Mitigation Monitoring Plan for review and approval.