

This document is the Final Mitigation Monitoring and Reporting Program (FMMRP) for the SPI Cogeneration Power project. This FMMRP has been prepared pursuant to Section 21081.6 of the California Public Resources Code, which requires public agencies to “adopt a reporting and monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment.” A FMMRP is required for the proposed project because the EIR has identified significant adverse impacts, and measures have been identified to mitigate those impacts.

The numbering of the individual mitigation measures follows the numbering sequence as found in the Draft EIR, some of which were revised after the Recirculated Draft EIR and 2nd Recirculated Draft EIR were prepared. These revisions are shown in Section 3 of the Final EIR. All revisions to mitigation measures that were necessary as a result of responding to public comments and incorporating staff-initiated revisions have been incorporated into this FMMRP.

4.1 MITIGATION MONITORING AND REPORTING PROGRAM

The FMMRP, as outlined in the following table, describes mitigation timing, monitoring responsibilities, and compliance verification responsibility for all mitigation measures identified in this Final EIR.

Shasta County will be the primary agency responsible for implementing the mitigation measures and will continue to monitor mitigation measures that are required to be implemented during the operation of the project.

The FMMRP is presented in tabular form on the following pages. The components of the FMMRP are described briefly below:

- **Mitigation Measures:** The mitigation measures are taken from the Draft EIR, the Recirculated Draft EIR, and the 2nd Recirculated Draft EIR in the same order that they appear in these documents.
- **Mitigation Timing:** Identifies at which stage of the project mitigation must be completed.
- **Monitoring Responsibility:** Identifies the agency that is responsible for mitigation monitoring.
- **Compliance Verification:** This is a space that is available for the monitor to date and initial when the monitoring or mitigation implementation took place.

TABLE 4.0-1: MITIGATION MONITORING AND REPORTING PROGRAM

ENVIRONMENTAL IMPACT	MITIGATION MEASURE	MONITORING RESPONSIBILITY	TIMING	VERIFICATION (DATE/INITIALS)
AESTHETICS				
<p>Impact 3.1-2: Project implementation may result in substantial adverse effects on scenic vistas and resources or substantial degradation of visual character.</p>	<p>Mitigation Measure 3.1-1: Any structures built as part of the SPI Cogeneration Facility that exceed the height of the tallest existing structure at the site (75 feet) shall include surfaces that are non-reflective and painted or finished in neutral earth-tones to reduce their visual contrast with the surrounding landscape, excepting any components, fittings and/or equipment the function or safe operation of which would be compromised by the application of a coating or other method of reducing glare and/or visual contrast. The final exterior design and colors used on the proposed structures shall be reviewed and approved by the Shasta County Department of Resource Management prior to issuance of building permits.</p>	<p>Shasta County Department of Resource Management</p>	<p>Prior to issuance of building permits.</p>	
<p>Impact 3.1-3: Project implementation may result in light and glare impacts</p>	<p>Mitigation Measure 3.1-2: Consistent with the requirements of Section 17.84.050, Lighting, of the County Zoning Ordinance (as amended through July 2003):</p> <p>All lighting, exterior and interior, shall be designed and located so as to confine direct lighting to the premises. A light source shall not shine upon or illuminate directly on any surface other than the area required to be lighted. No lighting shall be of the type or in a location such that constitutes a hazard to vehicular traffic, either on private property or on abutting streets.</p> <p>All exterior lighting shall be designed to emit light that is within the orange-yellow spectrum to the greatest extent feasible. The use of lighting in the blue-white spectrum shall be limited to areas where illumination is required in order for outdoor work in the immediate vicinity of the project to occur safely.</p> <p>The lighting plan shall demonstrate that light spillage in the blue-white spectrum onto adjacent properties does not increase beyond existing conditions. The lighting plan shall also demonstrate that any light spillage in the orange-yellow spectrum is reduced to the greatest extent feasible, while still meeting the safety and security requirements of the project site.</p> <p>Prior to issuance of building permits, the project applicant shall submit a lighting plan to Shasta County that meets the requirements outlined above. Once the project is fully operational, the County shall verify that all exterior</p>	<p>Shasta County Department of Resource Management</p>	<p>Prior to issuance of building permits, and throughout project operations.</p>	

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	<i>lighting meets the requirements of this measure.</i>			
AIR QUALITY				
<p>Impact 3.2-1: Construction of the proposed project would result in temporary dust and vehicle emission impacts in the project vicinity during site preparation and construction activities.</p>	<p>Mitigation Measure 3.2-1: <i>Prior to the commencement of construction activities, the project applicant shall prepare a construction emissions reduction plan that meets the requirements of the SCAQMD. The construction emissions reduction plan shall be submitted to the SCAQMD for review and approval. Said plan shall conform to SCAQMD rules governing Fugitive, Indirect, or Non-Traditional Sources. The construction emissions reduction plan should include the following requirements and measures: The project applicant shall require any and all persons/entities involved in the construction of the project to implement all feasible the following measures and any other Reasonably Available Control Measures (RACMs) such that operations comply with SCAQMD rules governing Fugitive, Indirect, or Non-Traditional Sources. Such measures include, but are not limited to those listed below:</i></p> <p>PM₁₀ Controls:</p> <ul style="list-style-type: none"> • <i>The applicant will be responsible for ensuring that all adequate dust control measures are implemented in a timely and effective manner during all phases of project development and construction.</i> • <i>All material excavated, stockpiled, or graded should be sufficiently watered to prevent fugitive dust from leaving property boundaries and causing a public nuisance or a violation of an ambient air standard. Watering should occur at least twice daily with complete site coverage, preferably in the mid-morning and after work is completed each day.</i> • <i>All areas (including unpaved roads) with vehicle traffic should be watered periodically or have dust palliatives applied for stabilization of dust emissions.</i> • <i>All onsite vehicles should be limited to a speed of 15 miles per hour on unpaved roads.</i> 	<p>Shasta County Air Quality Management District</p>	<p>Prior to the grading activities and throughout all grading and construction activities for all phases of project construction.</p>	

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	<ul style="list-style-type: none"> • <i>All land clearing, grading, earth moving, and excavation activities on a project will be suspended when winds are expected to exceed 20 miles per hour.</i> • <i>All inactive portions of the development site should be seeded and watered until suitable grass cover is established.</i> • <i>The applicant will be responsible for applying (according to manufacturer's specifications) nontoxic soil stabilizers to all inactive construction areas (previously graded areas that remain inactive for 96 hours) in accordance with the Shasta County Grading Ordinance.</i> • <i>All trucks hauling dirt, sand, soil, or other loose material should be covered or should maintain at least 2 feet of freeboard (i.e., minimum vertical distance between top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114. This provision will be enforced by local law enforcement agencies.</i> • <i>All material transported off site will be either sufficiently watered or securely covered to prevent a public nuisance.</i> • <i>Paved streets adjacent to the development site should be swept or washed at the end of each day to remove excessive accumulations of silt and/or mud that may have accumulated as a result of activities on the development site.</i> • <i>Adjacent paved streets will be swept (recommend water sweeper with reclaimed water) at the end of each day if substantial volumes of soil materials have been carried onto adjacent public paved roads from the project site.</i> • <i>Wheel washers will be installed where project vehicles and/or equipment enter and/or exit onto paved streets from unpaved roads. Vehicles and/or equipment will be washed prior to each trip.</i> • <i>Prior to final occupancy, the applicant will reestablish ground</i> 			

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	<p>cover on the construction site through seeding and watering in accordance with the Shasta County Grading Ordinance.</p> <p>Implementation of this mitigation shall occur during all construction activities. The County and the project applicant shall be responsible for monitoring.</p> <p>Mitigation Measure 3.2-2: The following mitigation measure shall be implemented by the applicant's contractor during all phases of project construction to reduce construction emissions:</p> <ul style="list-style-type: none"> • Limit the area subject to excavation, grading, and other construction activity at any given time. • Limit the hours of operation of heavy-duty equipment and/or the amount of equipment in use. • Replace fossil-fueled equipment with electrically driven equivalents (provided they are not run by a portable generator set). • Require that all diesel engines be shut off when not in use to reduce emissions from idling. • During the smog season (May through October), lengthen the construction period to minimize the number of vehicles and equipment operating at the same time. • Off-road trucks should be equipped with on-road engines when possible. • Minimize obstruction of traffic on adjacent roadways. • Power construction equipment with diesel engines fueled by alternative diesel fuel blends or ultra low sulfur diesel (ULSD). Only fuels that have been certified by ARB should be used. ARB has verified specific alternative diesel fuel blends for NOx and PM emission reduction. The applicant should also use ARB-certified alternative fueled (compressed natural gas [CNG], liquid propane 			

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	<p>gas [LPG], electric motors, or other ARB certified off-road technologies] engines in construction equipment where practicable.</p> <ul style="list-style-type: none"> Use construction equipment that meets the current off-road engine emission standard (as certified by ARB) or that is re-powered with an engine that meets this standard. Tier I, Tier II, and Tier III engines produce significantly less NOx and PM emissions than uncontrolled engines. <p>Implementation of this mitigation shall occur during all construction activities. The County and the project applicant shall be responsible for monitoring.</p>			
<p>Impact 3.2-2: Project implementation may conflict with, or obstruct, the applicable air quality plan, cause a violation of air quality standards, contribute substantially to an existing air quality violation, or result in a cumulatively considerable net increase of a criteria pollutant in a non-attainment area.</p>	<p>Mitigation Measure 3.2-3: Prior to operation of the proposed cogeneration facility, the Shasta County Air Quality Management District shall “withdraw” emission reduction credits for NOx, CO, PM₁₀, and ROG/VOC banked by SPI in the ERC program to offset emissions generated by the project. The offsets withdrawn shall be equal to or greater than the total net increase of each emission type generated by operation of the project. The final calculation of the ERCs to be withdrawn shall be completed by the SCAQMD. In the event that SPI does not have enough credits banked in the ERC program to fully offset project-generated emissions, SPI shall be required to purchase additional credits in order to fully mitigate for the emissions generated by the project.</p> <p>Mitigation Measure 3.2-4: In order to ensure that emissions rates from the proposed boiler do not exceed the levels calculated in the EIR analysis, the natural gas usage shall be limited to an annual limit of 62,500 mmbtu, which represents 500 hours of the rated natural gas burners.</p> <p>These usage limitations shall be placed on the project through permit conditions applied to both the Shasta County AQMD (District) Permit to Operate, as well as the federally enforceable Title V Permit to Operate, which will also be issued by the District.</p> <p>Monitoring and enforcement of these permit conditions shall be conducted by the Shasta County AQMD.</p>	<p>Shasta County Air Quality Management District</p>	<p>Prior to operation of the proposed cogeneration facility.</p> <p>Throughout all stages of project operations.</p>	

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<p>Impact 3.2-3: Project implementation may create objectionable odors affecting a substantial number of people</p>	<p>Mitigation Measure 3.2-5: <i>The following conditions shall be included in the project's Conditional Use Permit:</i></p> <ul style="list-style-type: none"> <i>All fuels for the proposed boiler shall be kept indoors, covered, and dry to the maximum extent feasible. In any event, no fuels shall remain idle and uncovered or outdoors for a period greater than 60 days unless unforeseeable circumstances require that said fuel remain idle and uncovered or outdoors for a greater length of time in which case the applicant shall notify the Department of Resource Management of the particular circumstances and provide a plan that details the length of time needed to normalize operations such that it is feasible to comply with the 60 day limitation. The Planning Director shall review the particular circumstances and reasonableness of the plan to normalize operations, and shall notify the applicant as to whether or not the Department finds reasonable cause to temporarily defer the limitation until operations have been normalized or if, more information or alternative actions to address the circumstance are necessary.</i> <i>Any fuels that show signs of rot or decomposition, or stored fuels that begin to generate significant odor shall either be burned in the boiler immediately, or removed from the premises and disposed of in a permitted landfill.</i> 	<p>Shasta County Department of Resource Management</p>	<p>Ongoing throughout all stages of project operation.</p>	
<p>Impact 3.2-5: Operation of the project may result in increased emissions associated with ash hauling and the movement of biomass materials within the project site</p>	<p>Mitigation Measure 3.2-6: <i>The following conditions shall be included in the project's Conditional Use Permit:</i></p> <ul style="list-style-type: none"> <i>All trucks transporting waste ash shall have their loads wetted and covered OR all material transported off site will be either sufficiently watered or securely covered to prevent a public nuisance in conformance with SCAQMD rules governing Fugitive, Indirect, or Non-Traditional Sources.</i> 	<p>Shasta County Department of Resource Management</p>	<p>Ongoing throughout all stages of project operation.</p>	

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	<ul style="list-style-type: none"> All trucks hauling dirt, sand, soil, or other loose material should be covered or should maintain at least 2 feet of freeboard (i.e., minimum vertical distance between top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114. This provision will be enforced by local law enforcement agencies. Require that all diesel engines be shut off when not in use to reduce emissions from idling. 			
BIOLOGICAL RESOURCES				
Impact 3.3-3: Direct or indirect effects on special-status fish species	<p>Mitigation Measure 3.3-1: Prior to issuance of a grading permit, a Storm Water Pollution Prevention Plan (SWPPP) shall be prepared. A copy of the SWPPP shall be available and implemented at the construction site at all times. The SWPPP shall outline the source control and/or treatment control BMPs to avoid or mitigate runoff pollutants at the construction site to the maximum extent practicable. Such BMPs shall include: erosion control (i.e. mulch, grass, stockpile covers, etc.) and sediment controls (i.e. silt fence, inlet protection, sediment traps, rockered construction entrances, etc.). BMPs shall be maintained throughout the construction phase by minimizing disturbance, preserving vegetation, and good housekeeping (i.e. daily clean-up of construction site).</p> <p>Mitigation Measure 3.3-2: Prior to issuance of a grading permit, a Notice of Intent shall be prepared and submitted to the Regional Water Quality Control Board in compliance with the National Pollution Discharge Elimination System (NPDES) requirements. The Notice of Intent shall include a copy of the SWPPP showing intent to comply with the State of California General Permit.</p> <p>Mitigation Measure 3.3-3: Prior to the commencement of construction, install orange construction barrier fencing to identify environmentally sensitive areas located in the vicinity of the project site. Environmentally sensitive areas include: 1) land adjacent to the Sacramento River including the riparian habitat, but exclusively on land owned by the project proponent, and 2) land around other aquatic, wetland, and riparian areas that are owned by the project proponent and located immediately adjacent to the</p>	Shasta County Department of Resource Management and the Central Valley Regional Water Quality Control Board	<p>Prior to grading and construction activities for all stages of project construction.</p> <p>Prior to grading and construction activities for all stages of project construction.</p> <p>Immediately following site construction activities.</p>	

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	<p><i>project site. The contractor shall work with the project engineer and qualified biologist to identify the locations for the barrier fencing, and shall place stakes around the sensitive resource sites to indicate these locations. The fencing will be installed before construction activities are initiated, will be maintained throughout the construction period, and removed following the completion of construction. The following paragraph will be included in the construction specifications:</i></p> <p><i>The Contractor’s attention is directed to the areas designated as “environmentally sensitive areas.” These areas are protected, and no entry by the Contractor for any purpose will be allowed unless specifically authorized in writing by the County of Shasta. The Contractor will take measures to ensure that Contractor’s forces do not enter or disturb these areas, including giving written notice to employees and subcontractors.</i></p> <p><i>Temporary fences around the environmentally sensitive areas will be installed as the first order of work. Temporary fences will be furnished, constructed, maintained, and removed as shown on the plans, as specified in the special provisions, and as directed by the project engineer. The fencing will be commercial-quality woven polypropylene, orange in color, and at least 4 feet high (Tensor Polygrid or equivalent). The fencing will be tightly strung on posts with a maximum 10-foot spacing.</i></p> <p>Mitigation Measure 3.3-4: <i>A Water Quality Management Plan shall be prepared for use as a post construction/operational SWPPP. The intent of the Water Quality Management Plan is to design a storm drain system that treats storm water to federal and state standards and to ensure that storm water is treated prior to entering a downstream protected wetland, jurisdictional water, and aquatic habitat for fish. The system should route all drainage from impermeable surfaces either through swales, buffer strips, or sand filters or it should be treated with a filtering system prior to discharge to the storm drain system.</i></p>			
CULTURAL RESOURCES				

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<p>Impact 3.4-1: Cause a substantial adverse change to a significant historical or archaeological resource, or directly or indirectly destroy or disturb a unique paleontological resource or human remains.</p>	<p>Mitigation Measure 3.4-1: <i>The following measures shall be included on all project construction plans and shall be adhered to throughout project site work.</i></p> <p>a) <i>A qualified archaeologist shall inspect the native soils once they have been exposed through excavation and prior to backfilling. If cultural resources are identified at that point, a qualified archaeologist shall document the resources and recommend/implement mitigation measures as necessary.</i></p> <p>b) <i>If any cultural resources (i.e., human bone or burnt animal bone, midden soils, projectile points, humanly-modified lithics, historic artifacts, etc.) are encountered during any phase of construction, all earth-disturbing work shall stop within 100 feet of the find. The Shasta County Planning Department shall be notified and a qualified archaeologist shall make an assessment of the discovery and recommend/implement mitigation measures as necessary. Shasta County shall consider mitigation recommendations presented by a qualified archaeologist that meets the Secretary of the Interior's Professional Qualifications Standards in prehistoric or historical archaeology for any unanticipated discoveries. The County and the project applicant shall consult and agree upon implementation of a measure or measures that the County and project applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures. The project applicant shall be required to implement any mitigation necessary for the protection of cultural resources.</i></p> <p>c) <i>If human remains are discovered, all work shall be halted immediately within 50 meters (165 feet) of the discover and the Shasta County Planning Department and the County Coroner shall be notified, according to Section 5097.98 of the State Public Resources Code and Section 7050.5 of California's Health and Safety Code. If the remains are determined to be Native American, the coroner will notify the Native American Heritage Commission, and the procedures outlined in CEQA Section 15064.5(d) and (e) shall be followed.</i></p> <p>d) <i>Prior to the commencement of project excavations, all construction personnel shall read and sign an agreement that describes and protects Native American remains and any/all potential, subsurface cultural</i></p>	<p>Shasta County Department of Resource Management</p>	<p>During all stages of project grading and construction activities.</p>	

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	<p>resources.</p> <p>e) <i>In the event that project plans change to include areas not surveyed, additional reconnaissance shall be required prior to any earth-disturbing activities to identify any potential cultural or paleontological resources or human remains. If any cultural resources are identified, Shasta County shall consider mitigation recommendations presented by a qualified archaeologist that meets the Secretary of the Interior's Professional Qualifications Standards in prehistoric or historical archaeology for any unanticipated discoveries. The County and the project applicant shall consult and agree upon implementation of a measure or measures that the County and project applicant deem feasible and appropriate. Such measures may include avoidance, preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures. The project applicant shall be required to implement any mitigation necessary for the protection of cultural resources.</i></p>			
GEOLOGY AND SOILS				
<p>Impact 3.5-1: The proposed project would expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving unstable soils and seismic-related ground failure, including liquefaction.</p>	<p>Mitigation Measure 3.5-1: <i>In accordance with the California Building Code (Title 24, Part 2) Section 1804A.3 and A.5, a, liquefaction and seismic settlement potential shall be addressed in the final design level geotechnical engineering investigations prior to approval of site plans or issuance of a grading permit.</i></p> <p><i>The County's Building Division of the Department of Resource Management shall ensure that all the pertinent sections of the California Building Code are adhered to in the construction of buildings and structures on site, and that all appropriate measures are implemented in order to reduce the risk of liquefaction and seismic settlement to acceptable levels prior to the issuance of a Building Permit.</i></p> <p><i>The final engineering plans for all proposed structures, foundations and utility trenches shall be prepared by a qualified engineer, and shall implement the recommendations and measures included in the Geotechnical Report: SPI Cogeneration Facility (CGI Technical Services Inc., June 2007). The measures shall address seismic settlement and liquefaction and shall</i></p>	<p>Shasta County Department of Resource Management</p>	<p>Prior to issuance of Building Permits.</p>	

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	<p>include, but are not limited to:</p> <ul style="list-style-type: none"> • Over-excavation and removal of existing soils, • Placement of compacted engineered fill beneath and around building pads, • Implementation of soil stabilization methods, • Dewatering of soils, • Moisture conditioning and soil compaction, and • Trench stabilization. 			
HAZARDS AND HAZARDOUS MATERIALS				
<p>Impact 3.6-1: Creation of a hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.</p>	<p>Mitigation Measure 3.6-1: Prior to issuance of the conditional use permit, a Hazardous Materials Business Plan/Spill Prevention Control and Countermeasures (SPCC) Plan shall be prepared to avoid spills and minimize impacts in the event of a spill. A SPCC will be required from the contractor during construction and from the operator during operations. The purpose of the SPCC is to ensure that adequate containment would be provided to control accidental spills, that adequate spill response equipment and absorbents would be readily available, and that personnel would be properly trained in how to control and clean up any spills. The County will review and approve the SPCC prior to approval of a grading permit. The County will routinely inspect active portions of the project area to verify that the Best Management Practices (BMPs) specified in the SPCC are properly implemented and maintained, will immediately notify the contractor if there is a noncompliance issue, and will require compliance. The federal reportable spill quantity for petroleum products, as defined in EPA’s guidelines (40 CFR 110) is any oil spill that: (1) violates applicable water quality standards; (2) causes a film or sheen upon or discoloration of the water surface or adjoining shoreline; or (3) causes a sludge or emulsion to be deposited beneath the surface of the water or adjoining shorelines. The SPCC will include the components listed below.</p> <p>a. The SPCC must include a discussion of hazardous materials management, including delineation of hazardous material and hazardous waste storage areas, prevention and response</p>	<p>Shasta County Environmental Health Division</p>	<p>Prior to issuance of a Conditional Use Permit.</p>	

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	<p><i>procedures, access and egress routes, and notification procedures.</i></p> <p><i>b. The SPCC will be provided to all contractors working on the proposed project, and one copy will be available on site at all times.</i></p> <p><i>c. The applicant and the applicant's contractors will store all paint, solvents, and any other hazardous materials in the manner specified by the manufacturer and in accordance with federal regulations and nationally and internationally recognized codes and standards. Small spray cans of carburetor fluid and other hazardous materials will be stored in an enclosed area in the pre-existing fuel storage building. A material safety data sheet will be stored with each material.</i></p> <p><i>d. All employees must be properly trained in the use and handling of these materials.</i></p> <p><i>e. Should a spill of hazardous material occur, EHD and DTSC, which have spill response and cleanup ordinances to govern emergency spill response, will be notified immediately. A written description of reportable releases will be submitted to the Central Valley Water Board. This submittal will include a description of the release, including the type of material and an estimate of the amount spilled, the date of the release, an explanation of why the spill occurred, and a description of the steps taken to prevent and control future releases. The releases will be documented on a spill report form. If a reportable spill has occurred and it is determined that project activities have adversely affected surface or groundwater quality in excess of water quality standards, a detailed analysis will be performed by a Registered Environmental Assessor to identify the likely cause of contamination. This analysis will conform to ASTM standards and will include recommendations for reducing or eliminating the source or mechanisms of contamination. Based on this analysis, the County and its contractors will select and implement measures to control contamination, with a performance standard that water quality will be returned to baseline conditions. These measures will be</i></p>			

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	<i>subject to approval by EHD and DTSC.</i>			
<p>Impact 3.6-2: Creation of significant hazards to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment</p>	<p>Mitigation Measure 3.6-2: <i>Prior to issuance of the conditional use permit, an Emergency Response Plan will be prepared for the review and approval by Shasta County. This plan will address potential accidents or emergencies involving fires or explosions at the proposed cogeneration facility. The Emergency Response Plan will be prepared in accordance with the Integrated Contingency Planning Guidelines (sometimes referred to as the "One Plan" guidelines) issued by the National Response Team. The Plan will consist of three sections: an Introduction, a Core Plan, and Annexes. The Introduction and Core Plan should be brief and contain only essential ("high level") information. The Introduction will describe the scope of the Emergency Response Plan, key names and addresses of contacts for an emergency, a description of processes, and the general facility hazards information. The Core Plan will describe how to identify an emergency, how and who to alert if an emergency occurs, roles during an emergency, how the emergency will be controlled, and how to terminate the incident.</i></p>	<p>Shasta County Department of Resource Management</p>	<p>Prior to issuance of a Conditional Use Permit.</p>	
HYDROLOGY AND WATER QUALITY				
<p>Impact 3.7-1: Violate any water quality standards or waste discharge requirements.</p>	<p>Mitigation Measure 3.7-1: <i>The project applicant shall prepare and submit a certified Stormwater Pollution Prevention Plan (SWPPP) to the Central Valley Regional Water Quality Control Board that includes specific types and sources of stormwater pollutants, determines the location and nature of potential impacts, and specifies appropriate control measures to eliminate any potentially significant impacts on receiving water quality from stormwater runoff in compliance with the State Water Resources Control Board's General Construction NPDES Permit, Water Quality Order No. 2009-0009-DWQ (during construction), and the State Board's General Industrial NPDES Permit, Water Quality Order No. 97-03-DWQ, or State Board's Individual NPDES Permit program (during operation). The SWPPP shall identify treatment Best Management Practices (BMPs) that incorporate, at a minimum, the required hydraulic sizing design criteria for volume and flow to treat projected stormwater runoff. The SWPPP shall comply with the most current standards established by the Central Valley RWQCB. BMPs shall be selected from a menu according to site requirements. The following list is intended as an outline summary of possible BMPs to be implemented, and the County and/or the CVRWQCB may impose additional requirements:</i></p>	<p>Shasta County Department of Resource Management and the Central Valley Regional Water Quality Control Board.</p>	<p>Prior to ground disturbing activities.</p>	

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	<p>Non-Structural BMPs</p> <ul style="list-style-type: none"> • Minimizing Disturbance • Preserving Natural Vegetation (where possible) • Good Housekeeping, e.g., daily clean-up of construction site <p>Structural BMPs</p> <p><i>Erosion Controls</i></p> <ul style="list-style-type: none"> • Mulch • Grass • Stockpile Covers <p><i>Sediment Controls</i></p> <ul style="list-style-type: none"> • Silt Fence • Inlet Protection • Check Dams • Stabilized Construction Entrances • Sediment Traps <p>Mitigation Measure 3.7-2: The project shall maintain, obtain or perform an update of any existing NPDES permit. NPDES permits are required for discharges of pollutants to navigable waters of the United States, which includes any discharge to surface waters, including lakes, rivers, streams, bays, the ocean, dry stream beds, wetlands, and storm sewers that are tributary to any surface water body. The NPDES permits regulate discharges from publicly owned treatment works, industrial discharges, stormwater runoff, dewatering operations, and groundwater cleanup discharges. NPDES permits are issued for five years or less, and are therefore to be updated regularly. If the Regional Water Quality Control Board determines that an Antidegradation Analysis is required as part of the NPDES permit application, the applicant shall prepare an Antidegradation Analysis to the satisfaction of the Regional Water Quality Control Board, consistent with 40 CFR 131.12.</p>			

ENVIRONMENTAL IMPACT	MITIGATION MEASURE	MONITORING RESPONSIBILITY	TIMING	VERIFICATION (DATE/INITIALS)
NOISE				
<p>Impact 3.8-3: Short-term construction-generated noise levels associated with the proposed project could result in a substantial temporary increase in ambient noise levels at nearby noise-sensitive land uses. Short-term increases in ambient noise levels may result in increased levels of annoyance and activity interference at nearby noise-sensitive land uses</p>	<p>Mitigation Measure 3.8-1: The following mitigation measures shall be included in the project's Conditional Use Permit:</p> <ul style="list-style-type: none"> a) Construction activities (excluding activities that would result in a safety concern to the public or construction workers) shall be limited to between the hours of 7:00 a.m. and 7:00 p.m. Construction activities shall be prohibited on Sundays and federal holidays. b) Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations. c) Construction equipment staging areas shall be located at the furthest distance possible from nearby noise-sensitive land uses. 	<p>Shasta County Department of Resource Management</p>	<p>During all grading and construction activities throughout all stages of site development.</p>	
TRANSPORTATION AND CIRCULATION				
<p>Impact 3.10-2: Project implementation would result in unacceptable levels of service at study area intersections under Cumulative Plus Project Conditions</p>	<p>Mitigation Measure 3.10-1: The following improvements to the intersection of I-5 SB Ramps/Riverside Avenue would improve intersection operations to acceptable levels under Cumulative Plus Project conditions (the project would contribute approximately 1.0 percent of the total cumulative traffic volumes at this intersection):</p> <ul style="list-style-type: none"> • Install Actuated-Coordinated Signal (coordinate with I-5 NB Ramps/Riverside Avenue intersection); • Widen eastbound approach to construct a dedicated right-turn pocket; and • Widen southbound approach to construct a free-right "channelized" right-turn pocket with appropriate westbound receiving lane. <p>The applicant shall pay all traffic impact fees required by Shasta County Ordinance 665. The County may consider using Ordinance 665 funds for the identified improvements to reduce cumulative impacts on the Riverside interchange if such improvements are identified and addressed in an updated Ordinance 665 Impact Fee Study or other public facility master plans as may be adopted from time to time by the Shasta County Board of Supervisors.</p>	<p>Shasta County Department of Resource Management</p>	<p>Prior to issuance of the Conditional Use Permit.</p>	

<i>ENVIRONMENTAL IMPACT</i>	<i>MITIGATION MEASURE</i>	<i>MONITORING RESPONSIBILITY</i>	<i>TIMING</i>	<i>VERIFICATION (DATE/INITIALS)</i>
	<p>Mitigation Measure 3.10-2: <i>The following improvements to the intersection of I-5 NB Ramps/Riverside Avenue would improve intersection operations to acceptable levels under Cumulative Plus Project conditions (the project would contribute approximately 0.5 percent of the total cumulative traffic volumes at this intersection):</i></p> <ul style="list-style-type: none"> • <i>Install Actuated-Coordinated Signal (coordinate with I-5 SB Ramps/Riverside Avenue intersection);</i> <p><i>The applicant shall pay all traffic impact fees required by Shasta County Ordinance 665. The County may consider using Ordinance 665 funds for the identified improvements reduce cumulative impacts on the Riverside interchange, if such improvements are identified and addressed in an updated Ordinance 665 Impact Fee Study or other public facility master plans as may be adopted from time to time by the Shasta County Board of Supervisors.</i></p>			

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