

# **COVER SHEET**

**FEDERAL ENERGY REGULATORY COMMISSION**

**DRAFT ENVIRONMENTAL IMPACT STATEMENT  
FOR THE BIG CREEK ALP PROJECTS  
Docket Nos. P-67, 2175, 2085, and 120**

**Appendix A  
Big Creek Projects Mitigation and Monitoring Summary  
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**APPENDIX A**

**BIG CREEK PROJECTS MITIGATION AND MONITORING SUMMARY**

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Appendix A. Big Creek ALP Projects mitigation and monitoring summary.

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Reduced flows downstream of project diversions	1.1.1 General Streamflow Requirements; as set forth in measures 1.1.1.1 through 1.1.1.22, maintain instantaneous and daily average flows downstream of Project diversion dams	<p><b>Ongoing:</b> <i>Instantaneous flow</i> measured in time increments of at least 15-minutes</p> <p><i>24-hour average flow</i> is the average of the incremental readings from midnight of one day to midnight of the next day</p>	<b>Ongoing:</b> Throughout project operation	SCE	SCE
Reduced flows downstream of project diversions and seasonal changes in reservoir levels	1.1.2/1.12 Instream Flow Measurement/ Flow Monitoring and Reservoir Water Level Measurement Plan	<p><b>One-time:</b> File Flow Monitoring and Reservoir Water Level Measurement Plan.</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<b>Ongoing:</b> Monitor the required 24-hour average and instantaneous instream flows throughout project operation	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration		Responsibility	
		One-time or Ongoing	Monitoring Duration	Mitigation Implementation	Mitigation Monitoring
Altered seasonal geohydrography	1.2 Channel Riparian Maintenance Flows	<p><b>Ongoing:</b> By March 15 of each year, use the March 1 preliminary Water Year forecast to inform the Forest Service, the State Water Board, FWS, Cal Fish &amp; Game and the Commission which category of instream flows would be implemented on April 1, with the option to adjust flows based on the April 1 and May 1 DWR Water Year forecast updates, if those updates are revised</p>	<p><b>Ongoing:</b> May 15 and June 30 in wet years (Bear Creek)</p> <p>April 1 and June 30 in wet years (Bolsillo, Camp 62, and Chinquapin creeks)</p> <p>Would be monitored in accordance with flow monitoring plan throughout project operation</p>	SCE	SCE
Altered seasonal geohydrography	1.3 Mono Creek Channel and Riparian Maintenance Flow Plan	<p><b>One-time:</b> File Mono Creek Channel and Riparian Maintenance Flow Plan no later than the summer following the first year of license issuance</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>Ongoing:</b> Would be monitored in accordance with flow monitoring plan throughout project operation. Monitoring of sediment accumulation in pools would occur within 6 months following any wet water year channel and riparian maintenance flow release. See also measure 1.1</p>	SCE	SCE

	Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
			One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
	Altered seasonal geohydrography	1.4 Camp 61 Creek Channel and Riparian Maintenance Flow Plan	<p><b>One-time:</b> File Camp 61 Creek Channel and Riparian Maintenance Flow Plan no later than the summer following the first year of license issuance</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>Ongoing:</b> Would be monitored in accordance with flow monitoring plan throughout project operation. See also measure 1.1</p>	SCE	SCE
A-3	Altered seasonal geohydrography	1.5 Channel and Riparian Maintenance Flow for the South Fork San Joaquin River Downstream of Florence Reservoir	<p><b>Ongoing:</b> Implement channel and riparian maintenance flow for the South Fork San Joaquin River Downstream of Florence Reservoir no later than 1 year following the first year of license issuance</p>	<p><b>Ongoing:</b> Would be monitored in accordance with flow monitoring plan throughout project operation. See also measure 1.1</p>	SCE	SCE
	Obstruction of streams	1.6 Small Diversions Decommissioning Plan	<p><b>One-time:</b> File Small Diversions Decommissioning Plan for Crater, Tombstone, South Slide, and North Slide Creek Diversions.</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>One-time:</b> Implement within 1 year of license issuance with completion of decommissioning within five years following license issuance</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Blockage of downstream transport of large woody debris	1.7 Large Wood Debris Management Plan	<p><b>Ongoing:</b> Return large wood to Bear Creek by allowing to pass over the Bear Creek diversion dam spillway during spill</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>Ongoing:</b> Beginning the first full calendar year after license issuance, allow LWD to pass over the Bear Creek diversion dam spillway during an event as well as placement downstream of the USGS gaging weir. Past year's LWD placement would be reviewed at annual meetings with future modifications based on annual consultation. Implement throughout project operation</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration		Responsibility	
		One-time or Ongoing	Monitoring Duration	Mitigation Implementation	Mitigation Monitoring
Potential project-related temperature alteration that may be inconsistent with the Basin Plan	1.8 Temperature Monitoring And Management Plan	<p><b>One-time:</b> File Temperature Monitoring and Management Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>Ongoing:</b> Monitoring during at least the first 3-5 years that new minimum instream flows are released under the new Project licenses, including during at least one Dry or Critically Dry Water Year type during the summer months (June 1-September 30). Implement throughout project operation</p> <p><b>Ongoing:</b> Annual Progress Report would be prepared 90 days following the completion of each year of temperature monitoring and submitted to the Forest Service, Cal Fish &amp; Game, Water Board, and FWS. A long-term program may be developed after the completion of five years of monitoring under this Plan</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential project-related alteration of fish communities	1.9 Fish Monitoring Plan	<p><b>One-time:</b> File Fish Monitoring Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>One-time:</b> Summary Report submitted to the resource agencies 6 months following the conclusion of the temperature monitoring required by this Plan</p> <p><b>Ongoing:</b> Fish surveys would begin in the 3rd full year following license issuance during years 8, 18, 28, and 38. Monitoring would occur during August and September in listed reaches along medium and large diversions that were surveyed in 2002, as part of the current licensing</p> <p><b>One-time:</b> Final Technical Report submitted to the resource agencies within 120 days following the completion of the last sampling period</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Obstruction of downstream sediment transport by project dams	1.10 Sediment Management Prescriptions	<b>Ongoing:</b> Implement sediment pass-through or sediment removal activities within 5 years of approval of the sediment management measures and every 5 years after the initial implementation throughout project operation	<p><b>Ongoing:</b> Monitoring of pool filling and turbidity would be conducted prior to, and after prescription implementation.</p> <p>Weighted mean value of the level of fine sediments in a representative set of 5 pools would be measured according to procedures defined by Hilton and Lisle (1993). Turbidity would be monitored during 2 storm events each year prior to implementation at the same locations</p> <p>Following submittal of monitoring results, the Forest Service, FWS, Cal Fish &amp; Game, and State Water Board would determine if sediment prescription modifications are warranted. Monitoring would be discontinued in subsequent years, upon agency approval</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Altered hydrogeomorphological processes on riparian resources	1.11 Riparian Monitoring Plan (Camp 61 Creek, Mono Creek, and South Fork San Joaquin River)	<p><b>One-time:</b> File Riparian Monitoring Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>One-time:</b> Collection of baseline data within 1 year of license issuance, prior to the initiation of minimum instream flows and channel and riparian maintenance flow in the selected reaches.</p> <p><b>Ongoing:</b> After the 1<sup>st</sup> year of license issuance, monitor for 5 years following channel and riparian maintenance flow releases made in the first wet water year for Mono Creek and Camp 61 Creek and the second wet water year for the South Fork San Joaquin River, and at 10 year intervals for the remainder of the license term</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential project-related effects on cultural resources	2.1 Historic Properties Management Plan (HPMP)	<p><b>One-time:</b> Complete and file Draft Historic Properties Management Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>One-time:</b> Collect baseline data on five archaeological sites currently affected by the project</p> <p><b>Ongoing:</b> Monitor affected sites twice annually for up to 5 years. Thereafter either discontinue monitoring (no change in baseline condition), consider alternative measures, or continue monitoring on new schedule. Monitoring would occur during implementation of treatment measures and during maintenance activities in the vicinity of any eligible archaeological site</p>	SCE	SCE
Visual effects on the surrounding landscape	3.1 Visual Resources Plan	<p><b>One-time:</b> File Visual Resources Plan</p> <p><b>One-time:</b> Implement the approved plan throughout project operation</p>	<p><b>One-time:</b> Test paint patches would be observed for a 1-year period to determine which color best blends with the natural environment</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential degradation of access roads needed to safely maintain project facilities	3.2 Transportation System Management Plan	<p><b>One-time:</b> File Transportation System Management Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation on an annual (activity typically occurs each year), regular (activity would occur 1 or more times in a 5-year period), or infrequent (activity typically occurs during a 20-year period, but less than once every 5 years) basis depending on the activity</p>	<b>Ongoing:</b> Implement throughout project operation	SCE, the Forest Service	SCE, the Forest Service

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential environmental degradation associated with recreation visitation to project lands and waters	4.1 Recreation Management Plan	<p><b>One-time:</b> File Recreation Management Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>Ongoing:</b> Implement throughout project operation</p> <p><b>Ongoing:</b> Form 80 filing every 6 years. At least once every 6 years, a recreational use and facilities condition survey, which would include trends of use, the number of days parking capacity, and resource damage would be completed in consultation with the Forest Service</p>	SCE, the Forest Service	SCE, the Forest Service

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential effects on special-status bats associated with project operations	5.1 Special-Status Bat Species License Article	<b>Ongoing:</b> Protective measures for special-status bats at Project facilities. Would be implemented prior to conducting any non-routine maintenance activities that could result in harm to special status bat species or their habitat, in structures that are known to support maternal or roosting bat species (including but not limited to, reconstruction and painting). Implementation of appropriate measures based on agency consultation		SCE	SCE
Project obstruction of mule deer migration corridors	5.2 Mule Deer License Article	<b>Ongoing:</b> Implement protective measures for mule deer at Project facilities, including seasonal closure of public to access roads. Throughout project operation	<b>Ongoing:</b> Annual photo documentation of debris present at the floating boom above the Mammoth Pool Reservoir spillway throughout project operation	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential effects of construction of new project facilities on special-status species	5.3 Special-Status Species License Article	<b>One-time:</b> Prepare a Biological Evaluation or Biological Assessment or other required document prior to construction of new Project features on National Forest Service land that may affect special-status species and their habitat. Obtain any necessary permits or approvals for potentially affected special-status species and their habitats		SCE	SCE
Project-related disturbance of bald eagles and their habitat	5.4 Bald Eagle Management Plan	<b>One-time:</b> File the bald eagle management plan <b>Ongoing:</b> Implement the approved plan throughout project operation	<b>Ongoing:</b> Nesting and wintering surveys every 5 years beginning within 1 year of plan approval by the Commission throughout project operation	SCE	SCE
Potential destruction of VELB habitat from project operations	5.5 Valley Elderberry Longhorn Beetle Management Plan	<b>One-time:</b> File Valley Elderberry Longhorn Beetle Management Plan <b>Ongoing:</b> Implement the approved plan throughout project operation	<b>Ongoing:</b> Monitoring mitigated sites <sup>7</sup> times over a 15-year period for years 1, 2, 3, 5, 7, 10, and 15 Throughout project operation/O&M activities	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration		Responsibility	
		One-time or Ongoing	Monitoring Duration	Mitigation Implementation	Mitigation Monitoring
Project-related spread of noxious weeds and invasive plants	5.6 Vegetation And Integrated Pest Management Plan	<p><b>One-time:</b> File Vegetation and Integrated Pest Management Plan</p> <p><b>Ongoing:</b> Implement the approved plan throughout project operation</p>	<p><b>Ongoing:</b> Surveys for noxious weeds would be conducted in conjunction with special-status plant surveys within the boundaries of the Project every 10 years</p> <p>Monitoring of noxious weed treatment areas, erosion control and revegetation areas would occur within 1 year of treatment or completion of activity.</p> <p><b>Ongoing:</b> Throughout project operation</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Threats to human safety from bears attracted to project-related facilities; domestication of wild bears	5.7 Bear/Human Interaction License Article	<p><b>One-time:</b> Installation of bear-proof dumpsters at the Big Creek No. 1 administrative offices and company housing, and other Project facilities where food waste may be disposed of or stored</p> <p><b>Ongoing:</b> Maintenance of bear-proof dumpsters would be ongoing. Implement educational program on reducing bear/human incidents</p>		SCE	SCE
Potential degradation of aquatic biota and associated habitat due to poor water quality in the Vermillion Valley leakage channel	1.1 Vermilion Valley Leakage Channel Macroinvertebrate Study Plan <sup>a</sup>	<p><b>One-time:</b> File Vermilion Valley Leakage Channel Macroinvertebrate Study Plan for Commission approval</p>	<p><b>Ongoing:</b> Sampling conducted yearly for the first 3 years following new license flow regime. Further studies or remediation would be determined by the State Water Board and/or the Commission</p> <p>Implement plan throughout project operation</p>	SCE	SCE

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential effects of gravel augmentation on dam safety and integrity of project facilities	B.1.2 Gravel Pilot Project Feasibility Study <sup>a</sup>	<b>One-time:</b> File a study plan for the Gravel Augmentation Feasibility Assessment for Commission approval	<b>Ongoing:</b> Implement Gravel Augmentation Feasibility Assessment	SCE, the Forest Service, FWS, Cal Fish & Game, the Water Board, and other interested agencies	SCE, the Forest Service, FWS, Cal Fish & Game, the Water Board, and other interested agencies
Potential deficiency of existing cultural advisory group organization and assistance.	2.1 Native American Advisory Group (NAAG) <sup>a</sup>	<b>Ongoing:</b> Provision of a facilitator for each NAAG meeting for up to a maximum of 1 eight-hour meeting every 3 months, until agreed to be discontinued. Throughout project operation		SCE, NAAG	SCE, NAAG

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential project-related effects on cultural resources	2.2 Native American Use Area Near Shaver Lake <sup>a</sup>	<b>One-time:</b> Designation of approximately 6.2 acres of SCE fee-owned lands (outside FERC project boundaries) in the area between Camp Edison and Dorabelle Campground for use as a cultural use area, including interpretive trails and native plant restoration and harvesting, for local Native American people within 60 days of license issuance		SCE, NAAG	SCE, NAAG
Potential restrictions to traditional Native American cultural sites	2.3 Ceremonial Use Area <sup>a</sup>	<b>One-time:</b> Identification of a potential location for ceremonial use following license issuance	<b>Ongoing:</b> Implement throughout project operation	SCE, NAAG	SCE, NAAG
Potential impacts to prehistoric remains encountered on project lands	2.4 Lands for Reburial <sup>a</sup>	<b>One-time:</b> Negotiate agreement on reburial of prehistoric human remains encountered on SCE lands in accordance requirements in the California Public Resources Code and other applicable laws	<b>Ongoing:</b> Implement throughout project operation	SCE, NAAG	SCE, NAAG

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential project-related effects on socioeconomics of Native American community	2.5 Native American Scholarship Fund <sup>a</sup>	<b>One-time:</b> Contribution of \$200,000 for a college or university education scholarship fund specifically earmarked for children of local Mono/Yokuts descent within 60 days of license issuance	<b>Ongoing:</b> Implement throughout project operation	SCE, NAAG	SCE, NAAG
Potential restrictions to traditional Native American cultural sites	2.6 Improve Pedestrian Access and Protection of Cultural Resource at Mono Hot Springs <sup>a</sup>	<b>One-time:</b> Provide \$10,000 to the Forest Service for development of a detailed plan for improvements to the Mono Hot Springs area that serve to facilitate Native American access and cultural use and resource protection from the South Fork San Joaquin River Bridge to the first concrete hot spring within 60 days of license issuance	<b>Ongoing:</b> Implement throughout project operation	SCE, NAAG, and the Forest Service	SCE, the Forest Service

	Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
			One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
	Lack of funding for Native American cultural preservation	2.7 Sierra Mono Museum (Museum) Curation Funding <sup>a</sup>	<b>One-time:</b> Provide \$150,000 toward the upgrade of the Sierra Mono Museum so that its archaeological curation program meets current federal standards; within 60 days of license issuance (\$50,000 initial and \$100,000 after Curation Plan approval)	<b>Ongoing:</b> Implement throughout project operation	SCE, Museum	SCE, Museum
A-19	Lack of experienced personnel assigned to monitor HPMP-related field work	2.8 Training for Native American Monitors <sup>a</sup>	<b>Ongoing:</b> Provide appropriate training for Native Americans to participate as monitors for archaeological field work as referenced in the HPMP	<b>Ongoing:</b> Conduct up to two workshops per year throughout project operation	SCE	SCE
	Lack of experienced personnel assigned to cultural and environmental resource field work	2.9 Additions to the Cultural and Environmental Awareness Program for SCE Employees <sup>a</sup>	<b>Ongoing:</b> Conduct cultural and environmental resource training of SCE field personnel and their supervisors and of contractors before they undertake field work which is ground-disturbing or for vegetation control	<b>Ongoing:</b> Conduct training at least once every two years throughout project operation	SCE	SCE

	Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
			One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
	Increased need for centralized organization of existing cultural resource information	2.10 Annotated Bibliography of Reports from SCE Project within Big Creek Area <sup>a</sup>	<b>One-time:</b> Provide tribes and historical societies annotated listing of reports of ethnographic, historical, and archaeological research prepared in conjunction with SCE hydroelectric projects in the Big Creek area through 2006 within 6 months of license issuance		SCE	SCE
A-20	Potential restrictions to traditional Native American cultural sites	2.11 Access to SCE Lands for Plant Gathering Purposes <sup>a</sup>	<b>Ongoing:</b> Notification for access to Project roads by Native American community members for plant gathering purposes	<b>Ongoing:</b> Notification prior to entering Project property throughout project operation	SCE	SCE
	Potential restrictions to traditional Native American cultural sites	2.12 Plant Gathering and Tending Garden <sup>a</sup>	<b>One-time:</b> Identification of a potential location for a gathering and tending garden	<b>Ongoing:</b> Throughout project operation; SCE and NAAG to reevaluate appropriateness of activities after 1 year	SCE	SCE

	Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
			One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
	Potential degradation of culturally significant sedge bed site	2.13 Jackass Meadow Sedge Bed Restoration <sup>a</sup>	<b>One-time:</b> Provide \$2,500 to the Forest Service for reconstruction of the fence protecting the sedge bed in the Tombstone Creek channel and \$1,500 for augmentation of the sedge bed with sand and/or gravel; No sooner than 60 days following license issuance	<b>Ongoing:</b> Throughout project operation; Coordinated with measure 1.11, riparian monitoring plan	SCE, the Forest Service	SCE, the Forest Service
A-21	Potential degradation of non-project access roads needed to safely maintain project facilities	3.1 Transportation Management Conditions <sup>a</sup>	<b>Ongoing:</b> Address Road Use Permits, special projects, and road work activities on non-project owned roads throughout project operation	<b>Ongoing:</b> Throughout project operation; Each permit would be issued for at least 5 years and subsequently re-issued throughout the term of the license. Annual consultation meeting with the Forest Service required	SCE, the Forest Service	SCE, the Forest Service
	Potential effects of development on private Shafer Lake lands	3.2 SCE Owned Lands in the Vicinity of Shaver Lake <sup>a</sup>	<b>Ongoing:</b> Preservation of undeveloped lands for wildlife habitat on the eastern side of Shaver Lake	<b>Ongoing:</b> Oversee forest management operations including regular assessment of condition of wildlife habitat on SCE forest lands to be taken into consideration if new uses are authorized	SCE	SCE

Impact	Mitigation	Mitigation Implementation		Responsibility	
		Duration	Monitoring Duration	Mitigation Implementation	Mitigation Monitoring
		One-time or Ongoing	One-time or Ongoing		
Assigning the Forest Service responsibility of maintaining recreation facilities	4.1 Recreation Facility Operational Maintenance <sup>a</sup>	<b>Ongoing:</b> SCE would take no responsibility for the annual operational maintenance of recreation facilities that are operated by the Forest Service, or their concessionaire	<b>Ongoing:</b> The Forest Service is responsible for this mitigation	the Forest Service	the Forest Service
Potential environmental degradation associated with increased recreational use and development at the project	4.2 Asset Management and Concentrated Use Maintenance <sup>a</sup>	<b>Ongoing:</b> Provide \$49,000 annually to the Forest Service for asset management and concentrated use management for the four Big Creek ALP Projects, and the Vermilion Valley (FERC Project No. 2086) and Portal (FERC Project No. 2174) projects  <b>One-time:</b> Provide funds to the Forest Service for a boat and trailer to accomplish the responsibilities associated with the management of the dispersed concentrated use recreation areas.	<b>Ongoing:</b> Implement throughout project operation	SCE, the Forest Service	SCE, the Forest Service

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential environmental degradation associated with increased recreational use and development at the project	4.3 Recreation Facility Minor Rehabilitation <sup>a</sup>	<b>Ongoing:</b> Provide \$145,000 annually to the Forest Service for minor rehabilitation activities at the Forest Service owned and operated recreation facilities	<b>Ongoing:</b> Implement throughout project operation	SCE, the Forest Service	SCE, the Forest Service
Potential need for environmental awareness associated with increased recreational use and development at the project	4.4 Interpretive Program (Forest Service, Shaver Crossing Railroad Station Group, Huntington Lake Big Creek Historical Conservancy) <sup>a</sup>	<b>Ongoing:</b> Provide \$13,000 annually to the Forest Service for interpretative opportunities in the vicinity of the Project  <b>One-time:</b> Provide one-time contributions to the Shaver Crossing Railroad Station Group (\$25,000) and the Huntington Lake Big Creek Historical Conservancy (\$150,000)	<b>Ongoing:</b> Implement throughout project operation	SCE, the Forest Service, and Huntington Lake Big Creek Historical Conservancy	SCE, the Forest Service, and Huntington Lake Big Creek Historical Conservancy

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential public use and safety issues associated with water surface elevations	4.5 Huntington Lake Boat Dock Assistance <sup>a</sup>	<b>Ongoing:</b> Provide assistance to the Huntington Lake Association in improving existing docks to provide a greater range of water recreation functionality in relation to Huntington Lake water surface elevations expected to occur during the recreation season		SCE, Huntington Lake Association	SCE, Huntington Lake Association
A-24 Increased visitation of project lands and the subsequent maintenance needs	4.6 Emergency Services <sup>a</sup>	<b>One-time:</b> Provide up to \$100,000 to both the Huntington Lake Volunteer Fire Department and the Fresno County Sheriff Department for a water tender and snow cat, respectively		SCE, Huntington Lake Volunteer Fire Department, and the Fresno County Sheriff Department	SCE, Huntington Lake Volunteer Fire Department, and the Fresno County Sheriff Department
Potential environmental degradation associated with increased recreational use at the site	4.7 San Joaquin River Trail Maintenance <sup>a</sup>	<b>One-time:</b> Provide \$40,000 to the San Joaquin River Trail Council for use in the development of the San Joaquin River Trail	<b>Ongoing:</b> Throughout project operation until funding is spent	SCE, San Joaquin River Trail Council	SCE, San Joaquin River Trail Council

Impact	Mitigation	Mitigation Implementation Duration	Monitoring Duration	Responsibility	
		One-time or Ongoing	One-time or Ongoing	Mitigation Implementation	Mitigation Monitoring
Potential impact of increased maintenance and public use on current water sources	4.8 Portal Campground Water System <sup>a</sup>	<p><b>One-time:</b> Reimburse up to \$100,000 to the Forest Service for the development and implementation of a water system at the Portal Campground</p> <p>No system need be developed if a water treatment plant is needed</p>		SCE, the Forest Service	SCE, the Forest Service
Potential impact of increased recreational use and development on fishery management	4.9 Big Creek Fish Hatchery <sup>a</sup>	<p><b>One-time:</b> Investigate the feasibility of rehabilitating and operating the Big Creek fish hatchery for educational purposes and augmentation of Cal Fish &amp; Game fish stocking activities in the Big Creek Basin. If renewed operation of the hatchery is not feasible, SCE would meet with Cal Fish &amp; Game to discuss alternatives</p>		SCE, Cal Fish & Game	SCE, Cal Fish & Game

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<sup>a</sup> Non-FERC SA provisions.

Notes: This table includes all 23 Proposed Articles in the Settlement Agreement (appendix A) and 26 non-FERC Settlement Agreement Provisions (appendix B). The Settlement Agreement envisions that all measures listed in appendix A of the agreement would be included in a new license for these Projects, whereas measures listed in appendix B would be implemented by SCE, but not included as a condition of a new license. Measures are listed in the order discussed in the Settlement Agreement.

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