

Additional Information Request No. 2 (Schedule A)

The Commission's Additional Information Request No. 2 stated:

(2) In your proposed recreation management Plan, Appendix O of the Big Creek ALP Settlement Agreement, you identify your responsibility for the management of recreational resources associated with the four projects for the term of the license. Under the heading *Recreation Facility Major Rehabilitation*, you provide a schedule for facility improvement. However, your schedule does not provide enough detail for us to understand the scope of the rehabilitation at the various sites and the respective rehabilitation costs. Therefore, please provide the following information specific to the recreation facility rehabilitation:

- a list of the kinds of rehabilitation measures that would be done at each site;
- a summary description of each measure at a level of detail sufficient for us to assess the any environmental effects of the measures, such as any anticipated ground-disturbing activities, closing of dispersed sites, rehabilitation and/or installation of sanitation facilities, installation of potable water, hardening and defining of public use areas, installation of picnic tables, expansion of sites to accommodate more visitors; and
- a breakdown of the rehabilitation cost at each recreation site.

SCE RESPONSE TO ADDITIONAL INFORMATION REQUEST NO. 2 (SCHEDULE A)

The following provides information regarding the scope of work and associated costs for the major rehabilitation of developed recreation facilities located in the vicinity of Southern California Edison Company's (SCE) four Big Creek Alternative Licensing Process (ALP) Projects. These four Projects include: Big Creek Nos. 1 and 2 (FERC Project No. 2175); Big Creek Nos. 2A, 8 and Eastwood (FERC Project No. 67); Big Creek No. 3 (FERC Project No. 120); and Mammoth Pool (FERC Project No. 2085). The following provides information on the kinds of rehabilitation measures, a summary description of each measure, and a breakdown of the rehabilitation costs.

1.0 RECREATION FACILITY REHABILITATION MEASURES

As outlined in the Big Creek ALP Recreation Management Plan and consistent with the Settlement Agreement reached by the Big Creek ALP Licensing Process stakeholders, SCE is proposing to be responsible for the full cost of major rehabilitation of existing recreation facilities identified in Table 1 of the Plan. A copy of Table 1 is provided as Attachment AIR-2-A. Major rehabilitation includes the reconditioning or replacing of an existing fixed asset and/or any of its components, in order to restore the functionality and/or extend the life of the asset. The assets currently in place at the recreation facilities listed in Attachment AIR-2-A will be rehabilitated or replaced in "like-kind" to maintain the current level of recreational support capacity and types of recreational experience. Existing assets at recreation facilities may be substituted or exchanged with another asset, which is considered "like-kind" and essentially has the same capacity and purpose. Exceptions to the policy of "like-kind" rehabilitation or replacement may include upgrades to assets for compliance with Americans with Disabilities Act (ADA) requirements.

Rehabilitation of developed recreation facilities will be conducted in consultation with the United States Department of Agricultural-Forest Service (USDA-FS) using a standardized process that occurs over a five-year timeframe in which the planning, designing, contracting, and construction will be completed. This five-year planning and implementation timeframe should provide sufficient time to complete the various process and physical measures associated with the recreation facility rehabilitation. These measures include preparation of a Design Narrative and Conceptual Plan, completion of any necessary additional National Environmental Policy Act (NEPA) environmental review, preparation of a Site Development Plan and Construction Plan, contracting, reconstruction, and acceptance of completion. Any required additional NEPA environmental review, assuming the Commission's review as a part of the licensing process is not sufficient, would be initiated by the USDA-FS following their approval of the Design Narrative and Conceptual Plan.

The specific rehabilitation measures to be completed at each developed recreation facility will be determined in consultation with the USDA-FS during the planning process. SCE will prepare a Design Narrative and Conceptual Plan that describe the rehabilitation activities identified for each site through the consultation process with the USDA-FS. The following list describes the types of rehabilitation measures that may be completed at the developed recreation facilities, where applicable.

- Rehabilitate or rebuild existing campsites, picnic sites, parking spurs, and boat launch ramps. The rehabilitation or rebuilding of these facilities will include ground-disturbing activities that may include regrading, leveling, widening, lengthening, and resurfacing of previously disturbed locations within existing recreation areas.

- Relocate and reconstruct campsites, picnic sites, parking spurs, and restroom structures, if located in environmental or culturally sensitive areas. These assets if located in sensitive resource areas (i.e., riparian corridors and cultural sites) will be removed and relocated. Where assets are removed the ground-surface will be regraded or re-contoured to a natural appearance and revegetated with native materials. Assets that are removed would be relocated and replaced at less sensitive locations within the footprint of the existing campground or day-use area, where practical.
- Rehabilitate or replace existing restroom facilities, water and electrical systems, trash disposal pads, and informational signage. The rehabilitation or rebuilding of these facilities will include ground-disturbing activities within previously disturbed locations. At restroom buildings, trash disposal facilities, and informational signs, the ground-disturbing activities will be localized to the footprint of the structure and to access pathways. Ground-disturbing activities associated with the replacement of water and electrical systems may include trenching through the campground or day-use area for subsurface installation, or to powerpole replacement if the electrical system is to be located above ground and pole replacement necessary.
- Replace picnic tables, fire rings, and food storage containers (bear boxes) in campgrounds and day-use areas. These assets will be replaced if they are in a deteriorated condition or if they do not comply with current ADA requirements.
- Repair and resurface interior road systems and parking areas at campgrounds and day-use areas. Interior road system repairs may include resurfacing the existing road surface with an asphalt or gravel overlay, or may require the complete removal of the existing road and rebuilding of the subgrade followed by a new hardened surface overlay.
- Replace vehicle barriers and traffic control features (i.e., gates). These features will be removed and replaced. Any ground-disturbing activities will be localized to the footprint of the existing feature (road barrier or gate).
- Rehabilitate and stabilize erosive areas and inoperative water drainage facilities (culverts). At locations where ongoing resource damage occurs, the ground surface will be regraded and revegetated with native materials to stabilize the area and prevent further resource damage. This may include the removal and replacement of drainage culverts that are deemed ineffective.
- Clear overgrown vegetation, if necessary. Thinning of trees and removal of overgrown brush may be conducted to improve accessibility and safety at campgrounds and day-use areas.

- Develop universally accessible facilities. The existing assets at developed recreation facilities often do not meet the current ADA accessibility guidelines and will be upgraded. The rehabilitation Projects will require that facilities be upgraded to comply with current ADA, and other applicable standards. The number of assets at each developed recreation facility that need to be upgraded to be compliant with ADA will be determined and reviewed with the USDA-FS. Universally accessible facilities will be located where the topography is relatively flat and near other developed facilities, such as restrooms.

In all rehabilitation measures, an emphasis will be placed on minimizing ground-disturbing activities, or other measures that might impact cultural or biological resources. If facilities need to be removed to prevent ongoing or possible future resource damage, the area will be restored to a natural appearance, including revegetation, using species which are native to the area.

There are no proposals for the expansion of overnight, and/or, day-use facilities for any of the developed recreation facilities identified in Attachment AIR-2-A. The present recreational facility capacities at each area are more than adequate to meet current and potential future use. In addition, there are no plans to change the types of recreation supported by each facility area. The exception to this is for ADA Requirements, USDA-FS Outdoor Recreation Accessibility Guidelines (FSORAG) and the Forest Service Trails Accessibility Guidelines (FSTAG). Where appropriate and feasible, facilities will be upgraded and/or expanded to accommodate use by those in need of accessible facilities.

Attachment AIR-2-B provides a summary of the anticipated rehabilitation tasks, for each of the developed recreation facilities identified in Attachment AIR-2-A. The rehabilitation schedule is provided in Table AIR-2-1 and is based on the terms identified in the 2007 SCE Big Creek ALP Settlement Agreement.

2.0 ESTIMATED RECREATION FACILITY REHABILITATION COSTS

The total cost for the rehabilitation of the developed recreation facilities listed in Table AIR-2-1 is estimated at \$17,950,000. These costs are to be incurred over a 27-year timeframe. Table AIR-2-1 also presents a summary of the rehabilitation schedule and associated cost for each developed recreation facility.

The estimated rehabilitation costs for each developed recreation facility associated with the SCE Big Creek ALP Projects are presented in Tables AIR-2-2a through AIR-2-2d. The estimated rehabilitation costs were developed using a cost estimating spreadsheet provided by the USDA-FS in 2006 during the settlement negotiations for the Big Creek ALP proceeding. The cost estimating spreadsheet includes unit costs for assets (i.e., campsites, day-use sites, picnic tables, fire rings, signs, trash facilities, restroom buildings, and roadways, etc.), found at the developed recreation facilities. Unit costs for the assets were provided by the

USDA-FS. The estimated rehabilitation cost determination was based on the inventory of assets at each recreation facility multiplied by the unit cost for each asset. Other direct costs were incorporated to determine the final estimated cost (rounded to the nearest thousand) for each recreation facility. These costs covered mobilization, engineering, administration, overhead, and inflation.

TABLES

Table AIR-2-1. Developed Recreation Facilities Rehabilitation Schedule and Costs.

Project Recreation Facility	Total Estimated Rehabilitation Costs	Years Recreation Rehabilitation Implemented ⁽¹⁾																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Big Creek Nos. 1 and 2 (FERC Project No. 2175)	\$6,800,000																											
Huntington Lake																												
Boat Ramp and Parking-Huntington Lake, East	\$551,000																											
Boat Ramp-Huntington Lake, West	\$446,000																											
Upper Billy Creek Campground	\$844,000																											
Lower Billy Creek Campground	\$225,000																											
Catavee Campground	\$431,000																											
College Campground	\$244,000																											
Deer Creek Campground	\$445,000																											
Kinnikinnick Campground	\$166,000																											
Rancheria Campground	\$2,948,000																											
Bear Cove Day-Use Picnic Area	\$180,000																											
Billy Creek Day-Use Picnic Area	\$55,000																											
Deer Creek Day-Use Picnic Area	\$93,000																											
Dowville Day-Use Picnic Area	\$93,000																											
Eastwood Overlook and Parking	\$79,000																											
Big Creek Nos. 2A, 8 and Eastwood (FERC Project No. 67)	\$9,200,000																											
Florence Lake																												
Boat Ramp-Florence Lake	\$450,000																											
Jackass Meadow Campground	\$750,000																											
Florence Lake Day-Use Picnic Area	\$150,000																											
Shaver Lake																												
Camp Edison Campground ⁽²⁾	\$4,250,000																											
Camp Edison Boat Ramp/Launch ⁽²⁾	\$500,000																											
Dorabelle Campground	\$1,535,000																											
Dorabelle Day-Use Picnic Area	\$265,000																											
Day-Use Areas on North Shore Roads 1 and 2 ⁽²⁾	\$250,000																											
Day-Use Area off of Hwy 168 (The Point) ⁽²⁾	\$150,000																											
Eagle Point Boat Only Day-Use Area ⁽²⁾	\$100,000																											
Balsam Meadow Forebay																												
Balsam Meadow Forebay Day Use Picnic Area/Trailhead ⁽²⁾	\$150,000																											
Mono Creek Forebay																												
Mono Creek Campground	\$550,000																											
Mono Creek Day-Use Picnic Area	\$100,000																											
Big Creek No. 3 (FERC Project No. 120)	\$50,000																											
Dam 6 Forebay																												
Angler Access Stairway at Mammoth Pool Powerhouse	\$17,000																											
Parking Area near Mammoth Pool Powerhouse Gate	\$33,000																											
Mammoth Pool (FERC Project No. 2085)	\$1,900,000																											
Mammoth Pool Reservoir																												
Boat Ramp-Mammoth Pool Boat Launch	\$505,000																											
China Bar Boat Camp	\$88,000																											
Mammoth Pool Campground	\$922,000																											
Windy Point Day-Use Picnic Area	\$39,000																											
Windy Point Boat Launch	\$346,000																											
Total Rehabilitation Costs for all 4 Big Creek ALP Projects:	\$17,950,000																											

Footnote:

⁽¹⁾ Initiation of the recreation facility rehabilitation schedule is based on the establishment of a settlement agreement in year 2007.

⁽²⁾ These facilities are maintained by SCE and the rehabilitation of these facilities are conducted on an ongoing basis during the term of the License as part of the routine maintenance and repair activities.

Table AIR-2-2a. Recreation Facility Rehabilitation Costs-Big Creek Nos. 1 and 2 Project (FERC Project No. 2175).

Recreation Facility Feature	Unit	Unit Price	Boat Ramp Huntington Lake East		Boat Ramp Huntington Lake West		Upper Billy Creek Campground		Lower Billy Creek Campground		Catavee Campground	
			Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost
Camp Site Development	Each	\$400		\$0		\$0	44	\$17,600	13	\$5,200	24	\$9,600
Day-Use Site Development	Each	\$400		\$0		\$0		\$0		\$0		\$0
Amphitheater	Lump Sum	\$20,000		\$0		\$0		\$0		\$0		\$0
Parking Spur Development	Each	\$200		\$0		\$0	44	\$8,800		\$0	24	\$4,800
Tables	Each	\$700		\$0		\$0	44	\$30,800	13	\$9,100	24	\$16,800
Fire Rings W/Grills	Each	\$300		\$0		\$0	44	\$13,200	13	\$3,900	24	\$7,200
Storage Containers (Bear Proof)	Each	\$200		\$0		\$0		\$0		\$0		\$0
Sign Installation (Camp Sites)	Each	\$30	1	\$30	1	\$30		\$0	13	\$390		\$0
Sign Installation (Entrance)	Each	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500
Sign Installation (bulletin)	Each	\$1,200	1	\$1,200	1	\$1,200	1	\$1,200	1	\$1,200	1	\$1,200
Sign Installation (information)	Each	\$200	1	\$200	1	\$200	1	\$200	1	\$200	1	\$200
Sign Installation (directional)	Each	\$100	2	\$200	1	\$100	1	\$100	1	\$100	1	\$100
Barrier Post (Material & Install)	Ratio	\$126		\$0		\$0	44	\$5,535	13	\$1,635		\$0
Barrier Rock (Material & Install)	Ratio	\$129		\$0		\$0	44	\$5,677	13	\$1,677		\$0
Dumpster Pads	Each	\$3,000	2	\$6,000		\$0	4	\$12,000	1	\$3,000	4	\$12,000
Dumpster (Bear Proof)	Each	\$3,000	2	\$6,000		\$0	4	\$12,000	1	\$3,000	4	\$12,000
Single Unit SST Toilet	Each	\$20,000	3	\$60,000		\$0	7	\$140,000	1	\$20,000	1	\$20,000
Accessible Hose Bibbs	Each	\$200	1	\$200		\$0	15	\$3,000	2	\$400	4	\$800
Water Valve Box Cover	Each	\$200		\$0		\$0		\$0		\$0		\$0
Replace Boat Launch	Lump Sum	\$205,000	1	\$205,000	1	\$205,000		\$0		\$0		\$0
Construct Loading Platform (Accessible Boat Loading)	Lump Sum	\$20,000	1	\$20,000	1	\$20,000		\$0		\$0		\$0
Boat Dock	Lump Sum	\$10,000	1	\$10,000	2	\$20,000		\$0		\$0		\$0
Pavement Parking Area (asphalt \$4/sq ft)	Lump Sum	\$20,000	1	\$20,000	1	\$20,000		\$0		\$0	1	\$20,000
Roadway Reconditioning (Asphalt Patching, etc.)	Lump Sum	\$20,000		\$0		\$0		\$0		\$0		\$0
Paving of Roadway & Spurs (unit cost per campsite)	Ratio	\$5,806		\$0		\$0	44	\$255,484	13	\$75,484	24	\$139,355
Pavement Stripping (centerline and parking)	LF	\$2,000		\$0		\$0		\$0		\$0		\$0
Corrugated Metal Pipe (18-inch Diameter)	LF	\$40		\$0		\$0		\$0		\$0		\$0
Roadway Ditch, 1-foot deep	LF	\$5		\$0		\$0		\$0		\$0		\$0
Trail Construction (Pathways)	Ratio	\$484	1	\$484		\$0		\$0	13	\$6,290	24	\$11,613
Trail Construction (aggregate surface to lake)	Ratio	\$145	1	\$145		\$0		\$0	13	\$1,887	10	\$1,452
Construct Stairway for Trail	Lump Sum	\$500		\$0		\$0		\$0		\$0		\$0
Construct Trail Bridge (Approximate length 15-feet)	Lump Sum	\$25,000		\$0		\$0		\$0		\$0		\$0
Misc. Site Work	Lump Sum	\$5,000		\$0		\$0		\$0		\$0		\$0
Hazard Tree Removal	Lump Sum	\$5,000		\$0		\$0		\$0		\$0		\$0
Removal of Materials/Debris (including Toilet Demo)	Lump Sum	\$20,000		\$0		\$0		\$0		\$0		\$0
Sub-Total				\$330,959		\$268,030		\$507,097		\$134,964		\$258,619
Other Direct Costs												
Mobilization	%	7%		\$23,167		\$18,762		\$35,497		\$9,447		\$18,103
Engineering and Administration	%	20%		\$66,192		\$53,606		\$101,419		\$26,993		\$51,724
Overhead	%	33%		\$109,216		\$88,450		\$167,342		\$44,538		\$85,344
Inflation	%	6.5%		\$21,512		\$17,422		\$32,961		\$8,773		\$16,810
Total (Rounded to the nearest \$1,000)				\$551,000		\$446,000		\$844,000		\$225,000		\$431,000

Table AIR-2-2a. Recreation Facility Rehabilitation Costs-Big Creek Nos. 1 and 2 Project (FERC Project No. 2175) (continued)

Recreation Facility Feature	College Campground		Deer Creek Campground		Kinnikinnick Campground		Rancheria Campground		Bear Cove Day-Use Picnic Area	
	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost
Camp Site Development	11	\$4,400	28	\$11,200	27	\$10,800	161	\$64,400		\$0
Day-Use Site Development		\$0		\$0		\$0		\$0	30	\$12,000
Amphitheater		\$0		\$0		\$0	1	\$20,000		\$0
Parking Spur Development	11	\$2,200		\$0		\$0		\$0		\$0
Tables	11	\$7,700	28	\$19,600	27	\$18,900	161	\$112,700	30	\$21,000
Fire Rings W/Grills	11	\$3,300	28	\$8,400	27	\$8,100	161	\$48,300	30	\$9,000
Storage Containers (Bear Proof)		\$0		\$0		\$0		\$0		\$0
Sign Installation (Camp Sites)	11	\$330		\$0		\$0	161	\$4,830		\$0
Sign Installation (Entrance)	1	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500
Sign Installation (bulletin)	1	\$1,200	1	\$1,200	1	\$1,200	1	\$1,200	1	\$1,200
Sign Installation (information)	1	\$200	1	\$200	1	\$200	1	\$200	1	\$200
Sign Installation (directional)	1	\$100	1	\$100	1	\$100	1	\$100	1	\$100
Barrier Post (Material & Install)	11	\$1,384	28	\$3,523		\$0	161	\$20,255		\$0
Barrier Rock (Material & Install)	11	\$1,419	28	\$3,613		\$0	161	\$20,774		\$0
Dumpster Pads	2	\$6,000	3	\$9,000	3	\$9,000	11	\$33,000	1	\$3,000
Dumpster (Bear Proof)	2	\$6,000	3	\$9,000	3	\$9,000	11	\$33,000	1	\$3,000
Single Unit SST Toilet	2	\$40,000	1	\$20,000	1	\$20,000	18	\$360,000	1	\$20,000
Accessible Hose Bibbs	2	\$400	9	\$1,800	4	\$800	40	\$8,000	1	\$200
Water Valve Box Cover		\$0		\$0		\$0		\$0		\$0
Replace Boat Launch		\$0		\$0		\$0		\$0		\$0
Construct Loading Platform (Accessible Boat Loading)		\$0		\$0		\$0		\$0		\$0
Boat Dock		\$0		\$0		\$0		\$0		\$0
Pavement Parking Area (asphalt \$4/sq ft)		\$0		\$0	1	\$20,000	1	\$20,000	1	\$20,000
Roadway Reconditioning (Asphalt Patching, etc.)		\$0		\$0		\$0		\$0		\$0
Paving of Roadway & Spurs (unit cost per campsite)	11	\$63,871	28	\$162,581		\$0	161	\$934,839		\$0
Pavement Stripping (centerline and parking)		\$0		\$0		\$0		\$0		\$0
Corrugated Metal Pipe (18-inch Diameter)		\$0		\$0		\$0		\$0		\$0
Roadway Ditch, 1-foot deep		\$0		\$0		\$0		\$0		\$0
Trail Construction (Pathways)	11	\$5,323	28	\$13,548		\$0	161	\$77,903	30	\$14,516
Trail Construction (aggregate surface to lake)	10	\$1,452	12	\$1,742		\$0	65	\$9,435	15	\$2,177
Construct Stairway for Trail		\$0		\$0		\$0		\$0		\$0
Construct Trail Bridge (Approximate length 15-feet)		\$0		\$0		\$0		\$0		\$0
Misc. Site Work		\$0		\$0		\$0		\$0		\$0
Hazard Tree Removal		\$0		\$0		\$0		\$0		\$0
Removal of Materials/Debris (including Toilet Demo)		\$0		\$0		\$0		\$0		\$0
Sub-Total		\$146,778		\$267,006		\$99,600		\$1,770,436		\$107,894
Other Direct Costs										
Mobilization		\$10,274		\$18,690		\$6,972		\$123,931		\$7,553
Engineering and Administration		\$29,356		\$53,401		\$19,920		\$354,087		\$21,579
Overhead		\$48,437		\$88,112		\$32,868		\$584,244		\$35,605
Inflation		\$9,541		\$17,355		\$6,474		\$115,078		\$7,013
Total (Rounded to the nearest \$1,000)		\$244,000		\$445,000		\$166,000		\$2,948,000		\$180,000

Table AIR-2-2a. Recreation Facility Rehabilitation Costs-Big Creek Nos. 1 and 2 Project (FERC Project No. 2175) (continued)

Recreation Facility Feature	Billy Creek Day-Use Picnic Area		Deer Creek Day-Use Picnic Area		Dowville Day-Use Picnic Area		Eastwood Overlook and Parking		Total Big Creek Nos. 1 and 2 Costs
	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	
Camp Site Development		\$0		\$0		\$0		\$0	
Day-Use Site Development	7	\$2,800	5	\$2,000	5	\$2,000		\$0	
Amphitheater		\$0		\$0		\$0		\$0	
Parking Spur Development		\$0		\$0		\$0		\$0	
Tables	7	\$4,900	5	\$3,500	5	\$3,500		\$0	
Fire Rings W/Grills	7	\$2,100	5	\$1,500	5	\$1,500		\$0	
Storage Containers (Bear Proof)		\$0		\$0		\$0		\$0	
Sign Installation (Camp Sites)		\$0		\$0		\$0		\$0	
Sign Installation (Entrance)	1	\$1,500	1	\$1,500	1	\$1,500	3	\$4,500	
Sign Installation (bulletin)	1	\$1,200	1	\$1,200	1	\$1,200	5	\$6,000	
Sign Installation (information)	1	\$200	1	\$200	1	\$200	30	\$6,000	
Sign Installation (directional)	1	\$100		\$0		\$0	1	\$100	
Barrier Post (Material & Install)		\$0		\$0		\$0	2	\$252	
Barrier Rock (Material & Install)		\$0		\$0		\$0		\$0	
Dumpster Pads		\$0	1	\$3,000	1	\$3,000		\$0	
Dumpster (Bear Proof)		\$0	1	\$3,000	1	\$3,000		\$0	
Single Unit SST Toilet		\$0	1	\$20,000	1	\$20,000		\$0	
Accessible Hose Bibbs	1	\$200	1	\$200	1	\$200		\$0	
Water Valve Box Cover		\$0		\$0		\$0		\$0	
Replace Boat Launch		\$0		\$0		\$0		\$0	
Construct Loading Platform (Accessible Boat Loading)		\$0		\$0		\$0		\$0	
Boat Dock		\$0		\$0		\$0		\$0	
Pavement Parking Area (asphalt \$4/sq ft)	1	\$20,000	1	\$20,000	1	\$20,000	1	\$20,000	
Roadway Reconditioning (Asphalt Patching, etc.)		\$0		\$0		\$0		\$0	
Paving of Roadway & Spurs (unit cost per campsite)		\$0		\$0		\$0		\$0	
Pavement Stripping (centerline and parking)		\$0		\$0		\$0	1	\$2,000	
Corrugated Metal Pipe (18-inch Diameter)		\$0		\$0		\$0	1	\$40	
Roadway Ditch, 1-foot deep		\$0		\$0		\$0	5	\$25	
Trail Construction (Pathways)		\$0		\$0		\$0	7	\$3,387	
Trail Construction (aggregate surface to lake)		\$0		\$0		\$0		\$0	
Construct Stairway for Trail		\$0		\$0		\$0		\$0	
Construct Trail Bridge (Approximate length 15-feet)		\$0		\$0		\$0		\$0	
Misc. Site Work		\$0		\$0		\$0	1	\$5,000	
Hazard Tree Removal		\$0		\$0		\$0		\$0	
Removal of Materials/Debris (including Toilet Demo)		\$0		\$0		\$0		\$0	
Sub-Total		\$33,000		\$56,100		\$56,100		\$47,304	
Other Direct Costs									
Mobilization		\$2,310		\$3,927		\$3,927		\$3,311	
Engineering and Administration		\$6,600		\$11,220		\$11,220		\$9,461	
Overhead		\$10,890		\$18,513		\$18,513		\$15,610	
Inflation		\$2,145		\$3,647		\$3,647		\$3,075	
Total (Rounded to the nearest \$1,000)		\$55,000		\$93,000		\$93,000		\$79,000	\$6,800,000

Table AIR-2-2b. Recreation Facility Rehabilitation Costs-Big Creek Nos. 2A, 8 and Eastwood Project (FERC Project No. 67).

Recreation Facility Feature	Unit	Unit Price	Florence Lake Boat Ramp		Jackass Meadow Campground		Florence Lake Day-Use Picnic Area		Camp Edison Campground	
			Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost
Camp Site Development	Each	\$400		\$0	50	\$20,000		\$0	252	\$100,800
Day-Use Site Development	Each	\$400		\$0		\$0	16	\$6,400	38	\$15,200
Amphitheater	Lump Sum	\$20,000		\$0		\$0		\$0	1	\$20,000
Parking Spur Development	Each	\$200		\$0		\$0		\$0	0	\$0
Tables	Each	\$700		\$0	50	\$35,000	16	\$11,200	290	\$203,000
Fire Rings W/Grills	Each	\$300		\$0	50	\$15,000	16	\$4,800	252	\$75,600
Storage Containers (Bear Proof)	Each	\$200		\$0	50	\$10,000	16	\$3,200	252	\$50,400
Sign Installation (Camp Sites)	Each	\$30		\$0	50	\$1,500		\$0	252	\$7,560
Sign Installation (Entrance)	Each	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500	2	\$3,000
Sign Installation (bulletin)	Each	\$1,200	1	\$1,200	2	\$2,400	3	\$3,600	12	\$14,400
Sign Installation (information)	Each	\$200	1	\$200	2	\$400	3	\$600	12	\$2,400
Sign Installation (directional)	Each	\$100	4	\$400	2	\$200	2	\$200	15	\$1,500
Barrier Post (Material & Install)	Ratio	\$126	20	\$2,516	40	\$5,032	16	\$2,013	252	\$31,703
Barrier Rock (Material & Install)	Ratio	\$129	20	\$2,581	40	\$5,161	16	\$2,065	252	\$32,516
Dumpster Pads	Each	\$3,000		\$0	4	\$12,000	1	\$3,000	17	\$51,000
Dumpster (Bear Proof)	Each	\$3,000		\$0	4	\$12,000	1	\$3,000	17	\$51,000
Single Unit SST Toilet	Each	\$20,000	1	\$20,000	2	\$40,000	1	\$20,000	13	\$260,000
Accessible Hose Bibbs	Each	\$200		\$0	10	\$2,000	4	\$800	15	\$3,000
Water Valve Box Cover	Each	\$200		\$0		\$0		\$0		\$0
Replace Boat Launch	Lump Sum	\$205,000	1	\$205,000		\$0		\$0		\$0
Construct Loading Platform (Accessible Boat Loading)	Lump Sum	\$20,000	0	\$0		\$0		\$0		\$0
Boat Dock	Lump Sum	\$10,000	1	\$10,000		\$0		\$0		\$0
Pavement Parking Area (asphalt \$4/sq ft)	Lump Sum	\$20,000	1	\$20,000		\$0	1	\$20,000	3	\$60,000
Roadway Reconditioning (Asphalt Patching, etc.)	Lump Sum	\$20,000		\$0		\$0		\$0	4	\$80,000
Paving of Roadway & Spurs (unit cost per campsite ¹)	Ratio	\$5,806		\$0	48	\$278,710		\$0	252	\$1,463,226
Pavement Stripping (centerline and parking)	LF	\$2,000		\$0		\$0		\$0		\$0
Corrugated Metal Pipe (18-inch Diameter)	LF	\$40		\$0		\$0		\$0		\$0
Roadway Ditch, 1-foot deep	LF	\$5		\$0		\$0		\$0		\$0
Trail Construction (Pathways)	Ratio	\$484		\$0	46	\$22,258	5	\$2,419	13	\$6,290
Trail Construction (aggregate surface to lake)	Ratio	\$145		\$0	50	\$7,258		\$0		\$0
Construct Stairway for Trail	Lump Sum	\$500		\$0		\$0		\$0		\$0
Construct Trail Bridge (Approximate length 15-feet)	Lump Sum	\$25,000		\$0		\$0		\$0		\$0
Misc. Site Work	Lump Sum	\$5,000		\$7,000		\$0	1	\$5,000	4	\$20,000
Hazard Tree Removal	Lump Sum	\$5,000		\$0		\$0		\$0		\$0
Removal of Materials/Debris (including Toilet Demo)	Lump Sum	\$20,000		\$0		\$0		\$0		\$0
Sub-Total				\$270,397		\$470,419		\$89,797		\$2,552,595
Other Direct Costs										
Mobilization	%	7%		\$18,928		\$90		\$6,286		\$178,682
Engineering and Administration	%	20%		\$54,079		\$94,084		\$17,959		\$510,519
Overhead	%	33%		\$89,231		\$155,238		\$29,633		\$842,357
Inflation	%	6.5%		\$17,576		\$30,577		\$5,837		\$165,919
Total (Rounded to the nearest \$1,000)				\$450,000		\$750,000		\$150,000		\$4,250,000

Table AIR-2-2b. Recreation Facility Rehabilitation Costs-Big Creek Nos. 2A, 8 and Eastwood Project (FERC Project No. 67) (continued)

Recreation Facility Feature	Camp Edison Boat Ramp/Launch		Dorabelle Campground		Dorabelle Day-Use Picnic Area		Day-Use Areas on North Shore Roads 1 & 2		Day-Use Area off Hwy 168 (The Point)		Eagle P Day
	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units
Camp Site Development		\$0	70	\$28,000		\$0		\$0		\$0	
Day-Use Site Development		\$0		\$0	22	\$8,800	40	\$16,000		\$0	7
Amphitheater		\$0		\$0		\$0		\$0		\$0	
Parking Spur Development		\$0		\$0		\$0		\$0		\$0	
Tables		\$0	70	\$49,000	22	\$15,400	40	\$28,000		\$0	7
Fire Rings W/Grills		\$0	70	\$21,000	22	\$6,600	24	\$7,200		\$0	12
Storage Containers (Bear Proof)		\$0		\$0		\$0		\$0		\$0	
Sign Installation (Camp Sites)		\$0		\$0		\$0		\$0		\$0	
Sign Installation (Entrance)	4	\$6,000	1	\$1,500	1	\$1,500	1	\$1,500	1	\$1,500	
Sign Installation (bulletin)	5	\$6,000	1	\$1,200	1	\$1,200		\$0	1	\$1,200	1
Sign Installation (information)	4	\$800	1	\$200	1	\$200	2	\$400		\$200	1
Sign Installation (directional)	4	\$400	1	\$100	1	\$100		\$0	1	\$100	
Barrier Post (Material & Install)		\$0	70	\$8,806	22	\$2,768		\$0		\$0	2
Barrier Rock (Material & Install)		\$0	70	\$9,032	22	\$2,839		\$0		\$0	
Dumpster Pads	2	\$6,000	6	\$18,000	1	\$3,000	2	\$6,000	2	\$6,000	2
Dumpster (Bear Proof)	2	\$6,000	6	\$18,000	1	\$3,000	2	\$6,000	2	\$6,000	2
Single Unit SST Toilet		\$0	16	\$320,000	2	\$40,000	3	\$60,000	1	\$20,000	1
Accessible Hose Bibbs		\$0	31	\$6,200		\$0		\$0		\$0	
Water Valve Box Cover		\$0		\$0		\$0		\$0		\$0	
Replace Boat Launch	1	\$205,000		\$0		\$0		\$0		\$0	
Construct Loading Platform (Accessible Boat Loading)		\$0		\$0		\$0		\$0	1	\$20,000	
Boat Dock		\$0		\$0		\$0		\$0	1	\$10,000	
Pavement Parking Area (asphalt \$4/sq ft)	2	\$40,000	1	\$20,000	3	\$60,000	1	\$20,000	1	\$20,000	
Roadway Reconditioning (Asphalt Patching, etc.)	1.5	\$30,000		\$0		\$0		\$0		\$0	
Paving of Roadway & Spurs (unit cost per campsite ¹)		\$0	70	\$406,452		\$0		\$0		\$0	
Pavement Stripping (centerline and parking)		\$0		\$0		\$0		\$0		\$0	
Corrugated Metal Pipe (18-inch Diameter)		\$0		\$0		\$0		\$0		\$0	
Roadway Ditch, 1-foot deep		\$0		\$0		\$0		\$0		\$0	
Trail Construction (Pathways)		\$0	9	\$4,355	22	\$10,645		\$0		\$0	10
Trail Construction (aggregate surface to lake)		\$0		\$0	22	\$3,194		\$0		\$0	
Construct Stairway for Trail		\$0		\$0		\$0		\$0		\$0	
Construct Trail Bridge (Approximate length 15-feet)		\$0		\$0		\$0		\$0		\$0	
Misc. Site Work		\$0	2	\$10,000		\$0	1	\$5,000	1	\$5,000	2
Hazard Tree Removal		\$0		\$0		\$0		\$0		\$0	
Removal of Materials/Debris (including Toilet Demo)		\$0		\$0		\$0		\$0		\$0	
Sub-Total		\$300,200		\$921,845		\$159,245		\$150,100		\$90,000	
Other Direct Costs											
Mobilization		\$21,014		\$64,529		\$11,147		\$10,507		\$6,300	
Engineering and Administration		\$60,040		\$184,369		\$31,849		\$30,020		\$18,000	
Overhead		\$99,066		\$304,209		\$52,551		\$49,533		\$29,700	
Inflation		\$19,513		\$59,920		\$10,351		\$9,757		\$5,850	
Total (Rounded to the nearest \$1,000)		\$500,000		\$1,535,000		\$265,000		\$250,000		\$150,000	

Table AIR-2-2b. Recreation Facility Rehabilitation Costs-Big Creek Nos. 2A, 8 and Eastwood Project (FERC Project No. 67) (continued)

Rehabilitation Cost	Recreation Facility Feature	Balsam Meadow Forebay Day-Use Picnic Area/Trailhead		Mono Creek Campground		Mono Creek Day-Use Picnic Area		Total Big Creek Nos. 2A, 8 and Eastwood Costs
		Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	
\$0	Camp Site Development		\$0	14	\$5,600		\$0	
\$2,800	Day-Use Site Development	10	\$4,000		\$0	6	\$2,400	
\$0	Amphitheater		\$0		\$0		\$0	
\$0	Parking Spur Development		\$0		\$0		\$0	
\$4,900	Tables	10	\$7,000	14	\$9,800	6	\$4,200	
\$3,600	Fire Rings W/Grills	10	\$3,000	14	\$4,200	6	\$1,800	
\$0	Storage Containers (Bear Proof)		\$0	14	\$2,800	6	\$1,200	
\$0	Sign Installation (Camp Sites)		\$0		\$0		\$0	
\$0	Sign Installation (Entrance)	1	\$1,500	1	\$1,500	1	\$1,500	
\$1,200	Sign Installation (bulletin)	1	\$1,200	2	\$2,400	1	\$1,200	
\$200	Sign Installation (information)	1	\$200	2	\$400		\$0	
\$0	Sign Installation (directional)	1	\$100	2	\$200	1	\$100	
\$252	Barrier Post (Material & Install)	10	\$1,258	14	\$1,761	8	\$1,006	
\$0	Barrier Rock (Material & Install)	10	\$1,290	14	\$1,806	8	\$1,032	
\$6,000	Dumpster Pads		\$0		\$0		\$0	
\$6,000	Dumpster (Bear Proof)		\$0		\$0		\$0	
\$20,000	Single Unit SST Toilet	1	\$20,000	2	\$40,000	1	\$20,000	
\$0	Accessible Hose Bibbs		\$0	5	\$1,000		\$0	
\$0	Water Valve Box Cover		\$0		\$0		\$0	
\$0	Replace Boat Launch		\$0		\$0		\$0	
\$0	Construct Loading Platform (Accessible Boat Loading)		\$0		\$0		\$0	
\$0	Boat Dock		\$0		\$0		\$0	
\$0	Pavement Parking Area (asphalt \$4/sq ft)	1	\$20,000		\$0	1	\$20,000	
\$0	Roadway Reconditioning (Asphalt Patching, etc.)	1	\$20,000	10	\$200,000		\$0	
\$0	Paving of Roadway & Spurs (unit cost per campsite ¹)		\$0	10	\$58,065	1	\$5,806	
\$0	Pavement Stripping (centerline and parking)		\$0		\$0		\$0	
\$0	Corrugated Metal Pipe (18-inch Diameter)		\$0		\$0		\$0	
\$0	Roadway Ditch, 1-foot deep		\$0		\$0		\$0	
\$4,839	Trail Construction (Pathways)		\$0	2	\$968		\$0	
\$0	Trail Construction (aggregate surface to lake)	5	\$726		\$0		\$0	
\$0	Construct Stairway for Trail		\$0		\$0		\$0	
\$0	Construct Trail Bridge (Approximate length 15-feet)		\$0		\$0		\$0	
\$10,000	Misc. Site Work	2	\$10,000		\$0		\$0	
\$0	Hazard Tree Removal		\$0		\$0		\$0	
\$0	Removal of Materials/Debris (including Toilet Demo)		\$0		\$0		\$0	
\$59,790	Sub-Total		\$90,274		\$330,500		\$60,245	
	Other Direct Costs							
\$4,185	Mobilization		\$6,319		\$23,135		\$4,217	
\$11,958	Engineering and Administration		\$18,055		\$66,100		\$12,049	
\$19,731	Overhead		\$29,790		\$109,065		\$19,881	
\$3,886	Inflation		\$5,868		\$21,483		\$3,916	
\$100,000	Total (Rounded to the nearest \$1,000)		\$150,000		\$550,000		\$100,000	\$9,200,000

Table AIR-2-2c. Recreation Facility Rehabilitation Costs-Big Creek No. 3 Project (FERC Project No. 120).

Recreation Facility Feature	Unit	Unit Price	Angler Access Stairway at Mammoth Powerhouse		Parking Area near Mammoth Powerhouse Gate		Total Big Creek No. 3 Costs
			Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	
Camp Site Development	Each	\$400		\$0		\$0	
Day-Use Site Development	Each	\$400		\$0		\$0	
Amphitheater	Lump Sum	\$20,000		\$0		\$0	
Parking Spur Development	Each	\$200		\$0		\$0	
Tables	Each	\$700		\$0		\$0	
Fire Rings W/Grills	Each	\$300		\$0		\$0	
Storage Containers (Bear Proof)	Each	\$200		\$0		\$0	
Sign Installation (Camp Sites)	Each	\$30		\$0	1	\$30	
Sign Installation (Entrance)	Each	\$1,500		\$0		\$0	
Sign Installation (bulletin)	Each	\$1,200		\$0		\$0	
Sign Installation (information)	Each	\$200		\$0		\$0	
Sign Installation (directional)	Each	\$100		\$0		\$0	
Barrier Post (Material & Install)	Ratio	\$126		\$0		\$0	
Barrier Rock (Material & Install)	Ratio	\$129		\$0		\$0	
Dumpster Pads	Each	\$3,000		\$0		\$0	
Dumpster (Bear Proof)	Each	\$3,000		\$0		\$0	
Single Unit SST Toilet	Each	\$20,000		\$0		\$0	
Accessible Hose Bibbs	Each	\$200		\$0		\$0	
Water Valve Box Cover	Each	\$200		\$0		\$0	
Replace Boat Launch	Lump Sum	\$205,000		\$0		\$0	
Construct Loading Platform (Accessible Boat Loading)	Lump Sum	\$20,000		\$0		\$0	
Boat Dock	Lump Sum	\$10,000		\$0		\$0	
Pavement Parking Area (asphalt \$4/sq ft)	Lump Sum	\$20,000		\$0	1	\$20,000	
Roadway Reconditioning (Asphalt Patching, etc.)	Lump Sum	\$20,000		\$0		\$0	
Paving of Roadway & Spurs (unit cost per campsite)	Ratio	\$5,806		\$0		\$0	
Pavement Stripping (centerline and parking)	LF	\$2,000		\$0		\$0	
Corrugated Metal Pipe (18-inch Diameter)	LF	\$40		\$0		\$0	
Roadway Ditch, 1-foot deep	LF	\$5		\$0		\$0	
Trail Construction (Pathways)	Ratio	\$484		\$0		\$0	
Trail Construction (aggregate surface to lake)	Ratio	\$145		\$0		\$0	
Construct Stairway for Trail	Lump Sum	\$500	1	\$10,000		\$0	
Construct Trail Bridge (Approximate length 15-feet)	Lump Sum	\$25,000		\$0		\$0	
Misc. Site Work	Lump Sum	\$5,000		\$0		\$0	
Hazard Tree Removal	Lump Sum	\$5,000		\$0		\$0	
Removal of Materials/Debris (including Toilet Demo)	Lump Sum	\$20,000		\$0		\$0	
Sub-Total				\$10,000		\$20,030	
Other Direct Costs							
Mobilization	%	7%		\$700		\$1,402	
Engineering and Administration	%	20%		\$2,000		\$4,006	
Overhead	%	33%		\$3,300		\$6,610	
Inflation	%	6.5%		\$650		\$1,302	
Total (Rounded to the nearest \$1,000)				\$17,000		\$33,000	\$50,000

Table AIR-2-2d. Recreation Facility Rehabilitation Costs-Mammoth Pool Project (FERC Project No. 2085).

Recreation Facility Feature	Unit	Unit Price	Boat Ramp-Mammoth Boat Launch		China Bar Boat Camp		Mammoth Pool Campground	
			Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost
Camp Site Development	Each	\$400		\$0	6	\$2,400	47	\$18,800
Day-Use Site Development	Each	\$400		\$0		\$0		\$0
Amphitheater	Lump Sum	\$20,000		\$0		\$0		\$0
Parking Spur Development	Each	\$200		\$0		\$0		\$0
Tables	Each	\$700		\$0	6	\$4,200	47	\$32,900
Fire Rings W/Grills	Each	\$300		\$0	6	\$1,800	47	\$14,100
Storage Containers (Bear Proof)	Each	\$200		\$0		\$0		\$0
Sign Installation (Camp Sites)	Each	\$30		\$0		\$0	47	\$1,410
Sign Installation (Entrance)	Each	\$1,500	1	\$1,500	1	\$1,500	2	\$3,000
Sign Installation (bulletin)	Each	\$1,200	4	\$4,800	2	\$2,400	8	\$9,600
Sign Installation (information)	Each	\$200	4	\$800	2	\$400	8	\$1,600
Sign Installation (directional)	Each	\$100	6	\$600		\$0	8	\$800
Barrier Post (Material & Install)	Ratio	\$126	10	\$1,258		\$0	47	\$5,913
Barrier Rock (Material & Install)	Ratio	\$129	10	\$1,290		\$0	47	\$6,065
Dumpster Pads	Each	\$3,000	1	\$3,000		\$0	4	\$12,000
Dumpster (Bear Proof)	Each	\$3,000	1	\$3,000		\$0	4	\$12,000
Single Unit SST Toilet	Each	\$20,000	1	\$20,000	2	\$40,000	8	\$160,000
Accessible Hose Bibbs	Each	\$200		\$0		\$0	13	\$2,600
Water Valve Box Cover	Each	\$200		\$0		\$0		\$0
Replace Boat Launch	Lump Sum	\$205,000	1	\$205,000		\$0		\$0
Construct Loading Platform (Accessible Boat Loading)	Lump Sum	\$20,000		\$0		\$0		\$0
Boat Dock	Lump Sum	\$10,000		\$0		\$0		\$0
Pavement Parking Area (asphalt \$4/sq ft)	Lump Sum	\$20,000	2	\$40,000		\$0		\$0
Roadway Reconditioning (Asphalt Patching, etc.)	Lump Sum	\$20,000	1	\$20,000		\$0		\$0
Paving of Roadway & Spurs (unit cost per campsite)	Ratio	\$5,806		\$0		\$0	47	\$272,903
Pavement Stripping (centerline and parking)	LF	\$2,000	1	\$2,000		\$0		\$0
Corrugated Metal Pipe (18-inch Diameter)	LF	\$40		\$0		\$0		\$0
Roadway Ditch, 1-foot deep	LF	\$5		\$0		\$0		\$0
Trail Construction (Pathways)	Ratio	\$484		\$0		\$0		\$0
Trail Construction (aggregate surface to lake)	Ratio	\$145		\$0		\$0		\$0
Construct Stairway for Trail	Lump Sum	\$500		\$0		\$0		\$0
Construct Trail Bridge (Approximate length 15-feet)	Lump Sum	\$25,000		\$0		\$0		\$0
Misc. Site Work	Lump Sum	\$5,000		\$0		\$0		\$0
Hazard Tree Removal	Lump Sum	\$5,000		\$0		\$0		\$0
Removal of Materials/Debris (including Toilet Demo)	Lump Sum	\$20,000		\$0		\$0		\$0
Sub-Total				\$303,248		\$52,700		\$553,691
Other Direct Costs								
Mobilization	%	7%		\$21,227		\$3,689		\$38,758
Engineering and Administration	%	20%		\$60,650		\$10,540		\$110,738
Overhead	%	33%		\$100,072		\$17,391		\$182,718
Inflation	%	6.5%		\$19,711		\$3,426		\$35,990
Total (Rounded to the nearest \$1,000)				\$505,000		\$88,000		\$922,000

Table AIR-2-2d. Recreation Facility Rehabilitation Costs-Mammoth Pool Project (FERC Project No. 2085) (continued)

Recreation Facility Feature	Windy Point Picnic Area		Windy Point Boat Launch		Total Mammoth Pool Costs
	Number of Units	Rehabilitation Cost	Number of Units	Rehabilitation Cost	
Camp Site Development		\$0		\$0	
Day-Use Site Development		\$0		\$0	
Amphitheater		\$0		\$0	
Parking Spur Development		\$0		\$0	
Tables		\$0		\$0	
Fire Rings W/Grills		\$0		\$0	
Storage Containers (Bear Proof)		\$0		\$0	
Sign Installation (Camp Sites)		\$0		\$0	
Sign Installation (Entrance)		\$0	1	\$1,500	
Sign Installation (bulletin)	1	\$1,200	1	\$1,200	
Sign Installation (information)	1	\$200	1	\$200	
Sign Installation (directional)	1	\$100	1	\$100	
Barrier Post (Material & Install)	8	\$1,006		\$0	
Barrier Rock (Material & Install)	8	\$1,032		\$0	
Dumpster Pads		\$0		\$0	
Dumpster (Bear Proof)		\$0		\$0	
Single Unit SST Toilet	1	\$20,000		\$0	
Accessible Hose Bibbs		\$0		\$0	
Water Valve Box Cover		\$0		\$0	
Replace Boat Launch		\$0	1	\$205,000	
Construct Loading Platform (Accessible Boat Loading)		\$0		\$0	
Boat Dock		\$0		\$0	
Pavement Parking Area (asphalt \$4/sq ft)		\$0		\$0	
Roadway Reconditioning (Asphalt Patching, etc.)		\$0		\$0	
Paving of Roadway & Spurs (unit cost per campsite)		\$0		\$0	
Pavement Stripping (centerline and parking)		\$0		\$0	
Corrugated Metal Pipe (18-inch Diameter)		\$0		\$0	
Roadway Ditch, 1-foot deep		\$0		\$0	
Trail Construction (Pathways)		\$0		\$0	
Trail Construction (aggregate surface to lake)		\$0		\$0	
Construct Stairway for Trail		\$0		\$0	
Construct Trail Bridge (Approximate length 15-feet)		\$0		\$0	
Misc. Site Work		\$0		\$0	
Hazard Tree Removal		\$0		\$0	
Removal of Materials/Debris (including Toilet Demo)		\$0		\$0	
Sub-Total		\$23,539		\$208,000	
Other Direct Costs					
Mobilization		\$1,648		\$14,560	
Engineering and Administration		\$4,708		\$41,600	
Overhead		\$7,768		\$68,640	
Inflation		\$1,530		\$13,520	
Total (Rounded to the nearest \$1,000)		\$39,000		\$346,000	\$1,900,000

ATTACHMENT AIR-2-A

TABLE 1 BIG CREEK ALP RECREATION MANAGEMENT PLAN

Attachment AIR-2-A

Table 1. Recreation Facilities in the Vicinity of the Project.

Project	Operation and Maintenance Responsibility
Big Creek Nos. 1 and 2 (FERC Project No. 2175)	
Huntington Lake	
Existing Recreation Facility	
Boat Ramp and Parking – Huntington Lake, East	Forest Service
Boat Ramp – Huntington Lake, West	Forest Service
Upper Billy Creek Campground	Forest Service
Lower Billy Creek Campground	Forest Service
Catavee Campground	Forest Service
College Campground	Forest Service
Deer Creek Campground	Forest Service
Kinnikinnick Campground	Forest Service
Rancheria Campground	Forest Service
Bear Cove Day-Use Picnic Area	Forest Service
Billy Creek Day-Use Picnic Area	Forest Service
Deer Creek Day-Use Picnic Area	Forest Service
Dowville Day-Use Picnic Area	Forest Service
Eastwood Overlook and Parking	SCE
New Recreation Facility	
Huntington Dam 3 Day-Use Area	Forest Service
Huntington Lake Universally Accessible Fishing Platform	Forest Service
Big Creek No. 3 (FERC Project No. 120)	
Dam 6 Forebay	
Existing Recreation Facility	
Angler Access Stairway at Mammoth Pool Powerhouse	Forest Service
Parking Area near Mammoth Pool Powerhouse Gate	Forest Service
Big Creek Nos. 2A, 8 and Eastwood (FERC Project No. 67)	
Florence Lake	
Existing Recreation Facility	
Boat Ramp – Florence Lake	Forest Service
Jackass Meadow Campground	Forest Service
Florence Lake Day-Use Picnic Area	Forest Service

Attachment AIR-2-A

Table 1. Recreation Facilities in the Vicinity of the Project (continued).

Project	Operation and Maintenance Responsibility
Big Creek Nos. 2A, 8 and Eastwood (FERC Project No. 67) (continued)	
New Recreation Facility	
Florence Lake Universally Accessible Boat Loading Platform	Forest Service
South Fork San Joaquin River Universally Accessible Fishing Platform	Forest Service
Shaver Lake	
Existing Recreation Facility	
Camp Edison Campground	SCE
Camp Edison Boat Ramp/Launch	SCE
Dorabelle Campground	Forest Service
Dorabelle Day-Use Picnic Area	Forest Service
Day-Use Areas on North Shore Roads 1 and 2	SCE
Day-Use Area off Hwy 168 (The Point)	SCE
Eagle Point Boat Only Day-Use Area	SCE
Balsam Meadow Forebay	
Existing Recreation Facility	
Balsam Meadow Forebay Day-Use Picnic Area	SCE
Balsam Meadow Trailhead and Parking	SCE
Mono Creek Forebay	
Existing Recreation Facility	
Mono Creek Campground	Forest Service
Mono Creek Day-Use Picnic Area	Forest Service
Mammoth Pool (FERC Project No. 2085)	
Mammoth Pool Reservoir	
Existing Recreation Facility	
Boat Ramp – Mammoth Pool Boat Launch	Forest Service
China Bar Boat Camp	Forest Service
Mammoth Pool Campground	Forest Service
Windy Point Day-Use Picnic Area	Forest Service
Windy Point Boat Launch	Forest Service

ATTACHMENT AIR-2-B
SUMMARY OF ANTICIPATED REHABILITATION TASKS

Attachment AIR-2-B

The following provides a summary of the anticipated rehabilitation tasks for each of the existing developed recreation facilities identified in Table 1 included in Attachment AIR-2-A.

Big Creek Nos. 1 and 2 (FERC Project No. 2175)

Huntington Lake

Huntington Lake East Boat Ramp

The boat launch ramp will be resurfaced and docks replaced. The parking area will be regraded and resurfaced. Informational and directional signage will be replaced. Vehicle control and barrier structures will be replaced. Three Single Standing Toilets (SST) will be installed and trash disposal facilities will be reconstructed. The internal trail system will be refurbished and upgraded to current ADA accessibility standards. An accessible boat-loading platform will be constructed.

Huntington Lake West Boat Ramp

The boat launch ramp will be resurfaced and docks replaced. The parking area will be regraded and resurfaced. Directional and informational signage will be replaced. Vehicle control and barrier structures will be replaced and trash disposal facilities will be reconstructed. An accessible boat-loading platform will be constructed.

Upper Billy Creek Campground

Forty-four campsites will be rehabilitated at Upper Billy Creek Campground and seven SST single vault toilets will be installed. The interior road system, all campsite parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Lower Billy Creek Campground

Thirteen campsites will be rehabilitated at Lower Billy Creek Campground and one SST single vault toilet will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Catavee Campground

Twenty-four campsites will be rehabilitated at Catavee Campground and one SST single vault toilet will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced. The internal trail system will be rehabilitated.

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College Campground

Eleven campsites will be rehabilitated at College Campground and two SST single vault toilets will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced. The internal trail system will be rehabilitated.

Deer Creek Campground

Twenty-eight campsites will be rehabilitated at Deer Creek Campground and one SST single vault toilet will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced. The internal trail system will be rehabilitated.

Kinnikinnick Campground

Twenty-seven campsites will be rehabilitated at Kinnikinnick Campground and one SST single vault toilet will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Rancheria Campground

One hundred and sixty-one campsites will be rehabilitated at Rancheria Campground and eighteen SST single vault toilets will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced. The amphitheater will be refurbished and the adjacent interpretive trail rehabilitated.

Bear Cove Day-Use Picnic Area

Thirty picnic sites will be rehabilitated at Bear Cove Day-Use Picnic Area and one SST single vault toilet will be installed. The parking area will be regraded and resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced. The internal trail system will be rehabilitated.

Billy Creek Day-Use Picnic Area

Seven picnic sites will be rehabilitated at Billy Creek Day-Use Picnic Area. The parking area will be regraded and resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Deer Creek Day-Use Picnic Area

Five picnic sites will be rehabilitated at Deer Creek Day-Use Picnic Area and one SST single vault toilet will be installed. The parking area will be regraded and resurfaced.

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Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Dowville Day-Use Picnic Area

Five picnic sites will be rehabilitated at Dowville Day-Use Picnic Area and one SST single vault toilet will be installed. The parking area will be regraded and resurfaced. Trash disposal facilities will be reconstructed. All information and directional signage will be replaced.

Eastwood Overlook and Parking

The interpretive displays at Eastwood Powerhouse Overlook will be replaced. The parking area will be regraded and resurfaced and access pathways resurfaced. All information and directional signage will be replaced.

Big Creek Nos. 2A, 8 and Eastwood (FERC Project No. 67)

Florence Lake Boat Ramp

The boat launch ramp will be resurfaced and docks replaced. The parking area will be regraded and resurfaced. Informational and directional signage will be replaced. Vehicle control and barrier structures will be replaced. One SST single vault toilet will be installed and trash disposal facilities will be reconstructed. An accessible boat-loading platform will be constructed.

Jackass Meadow Campground

Fifty campsites will be rehabilitated at Jackass Meadow Campground and two SST single vault toilets will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced. The internal trail system and the meadow boardwalk will be reconstructed.

Florence Lake Day-Use Picnic Area

Sixteen picnic sites will be rehabilitated at the Florence Lake Day-Use Picnic Area and one SST single vault toilet will be installed. The parking area will be regraded and resurfaced. Trash disposal facilities will be reconstructed. All information and directional signage will be replaced.

Shaver Lake

Camp Edison Campground

250 campsites and 38 picnic sites will be rehabilitated at Camp Edison Campground. Thirteen SST single vault toilets will be installed. The interior road system, all campsite parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

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Camp Edison Boat Ramp/Launch

The boat launch ramp will be resurfaced and docks replaced. The parking area will be regraded and resurfaced. Informational and directional signage will be replaced. Vehicle control and barrier structures will be replaced. Trash disposal facilities will be reconstructed.

Dorabelle Campground

Seventy campsites will be rehabilitated at Dorabelle Campground and 16 SST single vault toilets will be installed. The interior road system, all campsite parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Dorabelle Day-Use Picnic Area

Twenty-two picnic sites will be rehabilitated at the Dorabelle Day-Use Picnic Area and two SST single vault toilets will be installed. The parking area will be regraded and resurfaced. Trash disposal facilities will be reconstructed. All information and directional signage will be replaced.

Day-Use Areas on North Shore Roads 1 and 2

Forty picnic sites will be rehabilitated at the Day-Use Area on North Shore Roads 1 and 2. In addition, three SST single vault toilets will be installed. The parking area will be regraded and resurfaced. Trash disposal facilities will be reconstructed. All information and directional signage will be replaced.

Day-Use Area off Hwy 168 (The Point)

The parking area will be regraded and one SST single vault toilet will be installed at the Day-Use Area off Hwy 168. Trash disposal facilities will be reconstructed and all information and directional signage will be replaced.

Eagle Point Boat Only Day-Use Area

Seven picnic sites will be rehabilitated at the Eagle Point Boat Only Day-Use Area. Two trash disposal facilities will be reconstructed. All information and directional signage will be replaced.

Balsam Meadow Forebay

Balsam Meadow Forebay Day-Use Picnic Area and Trailhead

One SST single vault toilet will be installed Balsam Meadow Day-Use Picnic Area and the parking area will be regraded and resurfaced. All informational and directional signage will be replaced.

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Mono Creek Forebay

Mono Creek Campground

Fourteen campsites will be rehabilitated at Mono Creek Campground and two SST single vault toilets will be installed. The interior road system, all campground parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

Mono Creek Day-Use Picnic Area

Six picnic sites will be rehabilitated at the Mono Creek Day-Use Picnic Area and one SST single vault toilet will be installed. The parking area will be regraded and resurfaced. Trash disposal facilities will be reconstructed. All information and directional signage will be replaced.

Big Creek No. 3 (FERC Project No. 120)

Angler Access Stairway at Mammoth Pool Powerhouse

The stairway providing water-edge access will be replaced.

Parking Area near Mammoth Pool Powerhouse Gate

This parking area will be regraded and resurfaced.

Mammoth Pool (FERC Project No. 2085)

Mammoth Pool Boat Launch

The boat launch will be resurfaced and docks replaced. The parking area will be regraded and resurfaced. Informational and directional signage will be replaced. Vehicle control and barrier structures will be replaced. One SST single vault toilet will be installed and trash disposal facilities will be reconstructed.

China Bar Boat Camp

Six campsites will be rehabilitated at China Bar Boat Camp and two SST single vault toilets will be installed. All information signage will be replaced.

Mammoth Pool Campground

Forty-seven campsites will be rehabilitated at Mammoth Pool Campground and eight SST single vault toilets will be installed. The interior road system, all campsite parking spurs, and parking areas will be resurfaced. Vehicle control structures will be replaced, and trash disposal facilities reconstructed. All information and directional signage will be replaced.

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Windy Point Day-Use Picnic Area

One SST single vault toilet will be installed at the Windy Point Day-Use Picnic Area.

Windy Point Boat Launch

The boat launch ramp will be resurfaced.