

**PLACER COUNTY WATER AGENCY**  
**MIDDLE FORK AMERICAN RIVER PROJECT (FERC PROJECT NO. 2079)**  
**APPLICATION FOR NEW LICENSE**

**VOLUME 3 – EXHIBIT E SECTIONS 1 THROUGH 16 AND APPENDICES**  
**(PUBLIC INFORMATION)**

**Exhibit E**

INTRODUCTION

- 1.0 APPLICATION
- 2.0 PURPOSE OF ACTION AND NEED FOR POWER
- 3.0 NO-ACTION ALTERNATIVE
- 4.0 PROPOSED ACTION
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General Overview of the Contents and Organization of the Application for New License

**Volume 1** contains the Initial Statement and Exhibits A, B, C, D, G, and H (Public Information)

**Volume 2** contains Exhibit F (Critical Energy Infrastructure Information [CEII])<sup>1</sup>

**Volume 3** contains Exhibit E and Supporting Documents (SD) A, B, and C (Public Information)

**Volume 4** contains Exhibit E and associated SD A, B, and C (Confidential Information)<sup>2</sup>

**Volume 5** contains Exhibit E and associated SD D and E (Privileged Information)<sup>3</sup>

<sup>1</sup>Volume 2 is withheld from public disclosure in accordance with applicable regulations. It contains specific engineering and design information related to the generation and transmission of electric energy, and qualifies as Critical Energy Infrastructure Information (CEII) [18 CFR §388.113]. Volume 2 is not available in the Federal Energy Regulatory Commission's (FERC's) Public Reference Room nor on the FERC's electronic library, or on Placer County Water Agency's (PCWA's) Middle Fork American River Project relicensing website except as an indexed item. To further understand FERC's regulations regarding CEII visit <http://www.ferc.gov/legal/ceii-foia/ceii.asp>.

<sup>2</sup>Volume 4 is withheld from public disclosure in accordance with applicable regulations. It contains details on the location(s) of special-status biological resources, and qualifies as Confidential Information [18 CFR §385.1112]. Disclosure of such information could be harmful to these resources. Volume 4 is not available in the FERC's Public Reference Room nor on the FERC's electronic library, or on PCWA's Middle Fork American River Project relicensing website except as an indexed item. To further understand FERC's regulations regarding confidential filings visit <http://www.ferc.gov/help/filing-guide/foia-request.asp>.

<sup>3</sup>Volume 5 is withheld from public disclosure in accordance with applicable regulations. It contains details on the location(s) of sensitive cultural resources, and qualifies as Privileged Information [36 CFR §800.11(c)(1)]. Disclosure of such information could be harmful to these resources. Volume 5 is not available in the FERC's Public Reference Room nor on the FERC's electronic library, or on PCWA's Middle Fork American River Project relicensing website except as an indexed item. To further understand FERC's regulations regarding confidential filings visit <http://www.ferc.gov/help/filing-guide/foia-request.asp>.

**VOLUME 3 – EXHIBIT E SECTIONS 1 THROUGH 16 AND APPENDICES (CONTINUED)  
(PUBLIC INFORMATION)**

**Exhibit E (continued)**

- 9.0 CUMULATIVE EFFECTS ANALYSIS
- 10.0 ENVIRONMENTAL ANALYSIS OF OTHER ALTERNATIVES
- 11.0 ECONOMIC ANALYSIS
- 12.0 CONCLUSIONS AND RECOMMENDATIONS
- 13.0 FINDING OF NO SIGNIFICANT IMPACT
- 14.0 CONSULTATION DOCUMENTATION
- 15.0 LIST OF PREPARERS
- 16.0 LITERATURE CITED

**Appendices**

- Appendix A. Section 4.0, Proposed Action  
Modified or New Facility Construction Activities and Concept Designs
- Appendix B. Section 7.0, Affected Environment
  - B1a. Monthly Impaired and Unimpaired Flow by Water Year Type and Water Year at Gaging Stations and Modeled Hydrologic Nodes under Impaired and Unimpaired Conditions
  - Bab. Annual Peak Flow at Gages in the Middle Fork American River Project
  - B1c. Graphs of Average Daily Flow (1975-2007) for Selected Locations in the Waters Associated with the Middle Fork American River Project
  - B1d. Hourly Flows Measured at the Middle Fork American River near Foresthill Gage (USGS Gage No. 11433300)
  - B1e. Example Hydrographs Showing Impaired and Unimpaired Flows at the Top and Bottom of the Bypass and Peaking Reaches
  - B2. Habitat Area versus Flow Relationships and Effective Habitat Analyses
  - B3. Overview of the USDA-FS Visual Management System
- Appendix C. Section 8.0, Environmental Analysis of the Proposed Action
  - C1. Operations Model Description Summary
  - C2a. Wetted Perimeter Time Series Analysis
  - C2b. Habitat Time Series Relationships
  - C2c. Reservoir Water Surface Elevation Plots
  - C3. Construction Air Quality Emission Model
- Appendix D. Response to Comments on Draft License Application

**VOLUME 3 – EXHIBIT E SUPPORTING DOCUMENT A (SD A)**  
**(PUBLIC INFORMATION)**  
**SD A Proposed Environmental Measures**

**INTRODUCTION**

**AQUATIC RESOURCES – MANAGEMENT AND MONITORING PLANS**

Flow and Reservoir Monitoring Plan  
Fish Population Monitoring Plan  
Foothill Yellow-Legged Frog Monitoring Plan  
Geomorphology/Riparian Monitoring Plan  
Sediment Management Plan  
Water Temperature Monitoring Plan  
Western Pond Turtle Monitoring Plan  
Water Quality Monitoring Plan  
Bioaccumulation Monitoring Plan  
Benthic Macroinvertebrate Monitoring Plan

**AQUATIC RESOURCES – MEASURES**

Instream Flow and Reservoir Minimum Pool Measure

**LAND MANAGEMENT – MANAGEMENT PLANS**

Transportation System Management Plan  
Fire Prevention and Suppression Plan

**RECREATION RESOURCES – MANAGEMENT PLANS**

Recreation Plan  
Visual Resource Management Plan

**TERRESTRIAL RESOURCES – MANAGEMENT PLANS**

Vegetation and Integrated Pest Management Plan  
Bald Eagle Management Plan

**VOLUME 3 – EXHIBIT E SUPPORTING DOCUMENT B (SD B)**  
**(PUBLIC INFORMATION)**

**SD B Final Technical Study Reports**

**INTRODUCTION**

**AQUATIC RESOURCES**

AQ 1: Instream Flow (2010)  
AQ 2: Fish Population (2007–2009)  
AQ 3: Macroinvertebrate and Aquatic Mollusk (2007)  
AQ 3: Aquatic Mollusk (2008)  
AQ 4: Water Temperature Modeling (2010)  
AQ 5: Bioenergetics (2011)  
AQ 6: Fish Passage (2008)  
AQ 7: Entrainment Contingency Study (2011)  
AQ 8: Reservoir Fish Habitat (2011)  
AQ 9: Geomorphology (2008)  
AQ 9: Geomorphology (2010)  
AQ 10: Riparian Resources (2010)  
AQ 11: Water Quality (2007)  
AQ 11: Contingency Water Quality: Methylmercury Fish Tissue Sampling (2007–2009)  
AQ 12: Special-Status Amphibian and Aquatic Reptile (2007)  
AQ 12: Special-Status Amphibian and Aquatic Reptile Supplemental Report: California Red-Legged Frog Protocol-Level Survey Report (2010)

**VOLUME 3 – EXHIBIT E SUPPORTING DOCUMENT B (SD B)  
(PUBLIC INFORMATION)**

**SD B Final Technical Study Reports (continued)**

**CULTURAL RESOURCES**

CUL 1: Cultural Resources (2007)

CUL 1: Cultural Resources (2008)

**LAND MANAGEMENT**

LAND 1: Transportation System (2008)

LAND 2: Fire Prevention and Response (2008)

LAND 3: Emergency Action and Public Safety (2010)

LAND 4: FERC Project Boundary and Authorization (2008)

**RECREATION RESOURCES**

REC 1: Recreation Use and Facilities (2010)

REC 2: Recreation Visitor Surveys (2010)

REC 3: Reservoir Recreation Opportunities (2010)

REC 4: Stream-based Recreation Opportunities (2010)

REC 4: Contingency Whitewater Boating Study (2010)

REC 5: Visual Quality Assessment (2008)

**TERRESTRIAL RESOURCES**

TERR 1: Vegetation Communities and Wildlife Habitat (2007)

TERR 2: Special-Status Plants (2008)

TERR 3: Noxious Weed (2008)

TERR 4: Special-Status Wildlife (2008)

TERR 5: Bald Eagle (2008)

TERR 6: Special-Status Bats (2007)

**VOLUME 3 – EXHIBIT E SUPPORTING DOCUMENT C (SD C)  
(PUBLIC INFORMATION)**

**SD C Draft Biological Assessment/Biological Evaluation (BA/BE)**