

**LA GRANGE HYDROELECTRIC PROJECT  
FERC NO. 14581**

**FINAL LICENSE APPLICATION**

**TRANSMITTAL LETTER  
EXHIBITS A, E, F, AND G  
ATTACHMENTS A THROUGH F**



Prepared by:  
Turlock Irrigation District  
P.O. Box 949  
Turlock, CA 95381

and

Modesto Irrigation District  
P.O. Box 4060  
Modesto, CA 95352

September 2017

**LA GRANGE HYDROELECTRIC PROJECT  
FERC NO. 14581**

**FINAL LICENSE APPLICATION**

**MASTER TABLE OF CONTENTS**

## MASTER TABLE OF CONTENTS

Exhibit	Description
---------	-------------

---

**Transmittal Letter**

**Initial Statement**

**Executive Summary**

**Exhibit A Project Description**

**Exhibit E Environmental Report**

- 1.0 Introduction
- 2.0 Proposed Action and Alternatives
- 3.0 Environmental Analysis
  - 3.1 General Description of the Tuolumne River Basin
  - 3.2 Analysis of Direct, Indirect, and Cumulative Effects
  - 3.3 Geology and Soils
  - 3.4 Water Resources
  - 3.5 Aquatic Resources
  - 3.6 Wildlife and Botanical Resources
  - 3.7 Rare, Threatened, Endangered, Protected, and Special Status Species
  - 3.8 Recreation and Land Use
  - 3.9 Aesthetic Resources
  - 3.10 Cultural and Tribal Resources
  - 3.11 Socioeconomic Resources
- 4.0 Developmental Analysis
- 5.0 Consistency with Comprehensive Plans
- 6.0 Consultation Record
- 7.0 References

Appendix E-1 USFWS IPaC Search Results for the La Grange Hydroelectric Project Study Area

**Exhibit F General Design Drawings (Contains Critical Energy Infrastructure Information [CEII]; Not Released to the Public)**

Appendix F-1 Exhibit F Drawings Filed only with the Federal Energy Regulatory Commission as Critical Energy Infrastructure Information (CEII)

Appendix F-2 Supporting Design Report Filed only with the Federal Energy Regulatory Commission as Critical Energy Infrastructure Information (CEII)

- Dam Failure and Hazard Analysis Report (May 22, 2014)

- Initial Consultant Safety Inspection Report (September 29, 2015)
- Supporting Technical Memoranda
  - La Grange Diversion Dam Stability – Development of the Maximum Credible Earthquake (MCE) and Corresponding Spectra (March 28, 2016)
  - La Grange Diversion Dam Stability – Potential Failure Mode, Rock Mass/Shear Strength Estimate, and Kinematic Analysis of Left and Right Abutments (March 28, 2016)
  - La Grange Diversion Dam Stability – Inflow and Peak Storage Calculations for Inflow Design Flood (March 28, 2016)

## Exhibit G Project Boundary Map

Exhibit G-1 Project Boundary Map  
Appendix G-1 FERC Form-587

### List of FLA Attachments

---

Attachment A	Districts’ Response to NMFS-4, Element 1 through 6 (Effects of Don Pedro Project and Related Facilities on Hydrology for Anadromous Fish: Magnitude, Timing, Duration, and Rate of Change)
Attachment B	Comments on the La Grange Draft License Application (DLA) and Districts’ Responses
Attachment C	Study Reports and Technical Memoranda
1.0	Flow Records for Five Discharge Structures at the La Grange Project Technical Memorandum
2.0	La Grange Project Fish Barrier Assessment Study Report
3.0	Topographic Survey Technical Memorandum
4.0	Salmonid Habitat Mapping Technical Memorandum
5.0	Fish Presence and Stranding Assessment Technical Memorandum
6.0	Investigation of Fish Attraction to La Grange Powerhouse Draft Tubes Study Report
7.0	Effects of the Project and Related Activities on the Losses of Marine-Derived Nutrients in the Tuolumne River Study Report
8.0	Fish Passage Facilities Alternatives Assessment Study Report
9.0	Upper Tuolumne River Basin Fish Migration Barriers Study Report
10.0	Upper Tuolumne River Basin Water Temperature Monitoring and Modeling Study: Model Development Study Report
11.0	Upper Tuolumne River Basin Water Temperature Monitoring and Modeling Study: Temperature Indices Analysis Study Report
12.0	Hatchery and Stocking Practices Review Study Report
13.0	Recreation Access and Safety Assessment Study Report
14.0	Cultural Resources Study Report

Attachment D La Grange Hydroelectric Project Consultation Record

- Appendix A Consultation Record Documents
- Appendix B Licensing Website Announcement Record Documents
- Appendix C Workshop and Technical Committee Meeting Notes

Attachment E Applicant-Prepared Biological Assessment for California Central Valley Steelhead (*Oncorhynchus mykiss*) Distinct Population Segment

- Appendix A Pacific Coast Salmon Essential Fish Habitat Assessment
- Appendix B Conceptual Sluice Gate Fish Barrier Design
- Appendix C Cumulative Effects Supplement

Attachment F Draft Historic Properties Management Plan

- Attachment A Historic Properties Management Plan Comment/Response Table
- Attachment B Resource Tables, Including Initial Treatment Plan
- Attachment C Resource Location Map
- Attachment D Cultural Resources Survey Coverage Maps
- Attachment E Tribal and Agency Consultation History
- Attachment F State Historic Preservation Officer Consultation Letters