

EXHIBIT F

DESIGN DRAWINGS AND SUPPORTING BASIS OF DESIGN

**BOYNE RIVER HYDROELECTRIC PROJECT
(FERC PROJECT NO. 3409)**

**APPLICATION FOR SUBSEQUENT LICENSE
FOR MINOR WATER POWER PROJECT, 1.5 MW OR LESS**

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INTRODUCTION

Exhibit F consists of three sections: Drawings, Geotechnical Report, and the Hydrologic and Hydraulic Report. Portions of this exhibit are categorized as Critical Energy Infrastructure Information (CEII) and are not publicly available.

PART 1 — DRAWINGS

Part 1 contains the Exhibit F drawings. These include:

- Overall Plan- Spillways and Embankments (Drawing F1)
- Plan Detail- Powerhouse and Spillways (F2)
- Spillway Elevation View A-A (F3)
- Profile- Generator Flow, Section B-B (F4)
- Spillway Profile, Section C-C (F5)
- Embankment Cross Section D-D (F6)
- Auxiliary Spillway- Plan and Profile Section E-E (F7)
- Right Embankment, Section F-F (F8)
- Emergency Spillway Profile (F9)
- Crest Profiles- Left & Right Embankments (F10)

PART 2 — GEOTECHNICAL REPORT

Part 2 contains the geotechnical report. This report provides results of stability analyses of the embankment under static (high water), rapid drawdown and seismic conditions.

PART 3 — HYDROLOGIC AND HYDRAULIC REPORT

Part 3 is the hydrologic and hydraulic report. This report gives an overview of the watershed and impoundment, spillway descriptions and operation, hydrology (including flow duration curves), spillway hydraulics, design flow and discussion of study requests that pertain to hydrologic and hydraulic topics.

Part 1 - Drawings

PREPARED BY: J.E. TIFFANY AND SONS, LLC.

**PART 1 CONTAINS CRITICAL ENERGY INFRASTRUCTURE INFORMATION
AND IS NOT RELEASED TO THE PUBLIC.**

Part 2 - Geotechnical Report

PREPARED BY: PREIN & NEWHOF

**PART 2 CONTAINS CRITICAL ENERGY INFRASTRUCTURE INFORMATION
AND IS NOT RELEASED TO THE PUBLIC.**

Part 3 - Hydrologic and Hydraulic Report

PREPARED BY: J.E. TIFFANY AND SONS, LLC.