

**GLEN FERRIS HYDROELECTRIC PROJECT
(FERC NO. 14439)**

**DRAFT LICENSE APPLICATION
VOLUME III OF V**



**Prepared for:
Hawks Nest Hydro, LLC**

Prepared by:



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List of Acronyms

CEII	Critical Energy Infrastructure Information
CFR	Code of Federal Regulations
ECPA	Electronic Consumers Protection Act
FERC	Federal Energy Regulatory Commission or Commission
FPA	Federal Power Act
Glen Ferris	Glen Ferris Hydroelectric Project or Project
SDR	Supporting Design Report

Exhibit F

List of General Design Drawings (18 CFR §4.51(g))

F.1 DESIGN DRAWINGS

The General Design Drawings show overall plan views, elevation and sections of the principal Project works in sufficient detail to provide a full understanding of the Project. In accordance with 18 Code of Federal Regulations (CFR) Part 388, Hawks Nest Hydro is requesting that the General Design Drawings for the Glen Ferris Hydroelectric Project (Glen Ferris or Project) be given privileged treatment because the drawings contain Critical Energy Infrastructure Information (CEII). This request for privileged treatment is being made to the Federal Energy Regulatory Commission (FERC or Commission) in accordance with the Final Rule (Order No. 630-A) issued by the Commission on July 23, 2003 (revised August 8, 2003). Therefore, in conjunction with filing this License Application, Exhibit F General Design Drawings listed below are being filed with the Commission in Volume V of this application under separate cover in accordance with Order 630-A.

TABLE F-1: EXHIBIT F GENERAL DESIGN DRAWINGS

Drawing Number	Title
Sheet F-1	Glen Ferris Hydroelectric Project – East and West Power Houses Plans and Arrangement
Sheet F-2	Glen Ferris Hydroelectric Project – Concrete Dam Plan and Sections
Sheet F-3	Glen Ferris Hydroelectric Project – Sluiceways in Dam Sections and Elevation
Sheet F-4	Glen Ferris Hydroelectric Project – West Power House Sections
Sheet F-5	Glen Ferris Hydroelectric Project – East Power House Elevation, Sectional Plan, and Sections
Sheet F-6	Glen Ferris Hydroelectric Project – East Power House Elevation, Plan and Sections

F.2 SUPPORTING DESIGN REPORT

18 C.F.R. §4.41(g)(3) requires that an applicant for a new license file with the Commission two copies of a Supporting Design Report (SDR) when the applicant files a license application. The purpose of the SDR is to demonstrate that the existing structures are safe and adequate to fulfill their stated functions.

A SDR has been developed for the Glen Ferris Project. Because the documents also contain CEII it is being filed with the Commission in Volume V of this application under separate cover.

The SDR is still under development and will be included in the final license application.

Exhibit G

Project Map (18 CFR §4.51(h))

The Project Boundary Map shows the Project vicinity, location, and boundary in sufficient detail to provide a full understanding of the Project's location.

TABLE G-1: PROJECT BOUNDARY MAPS

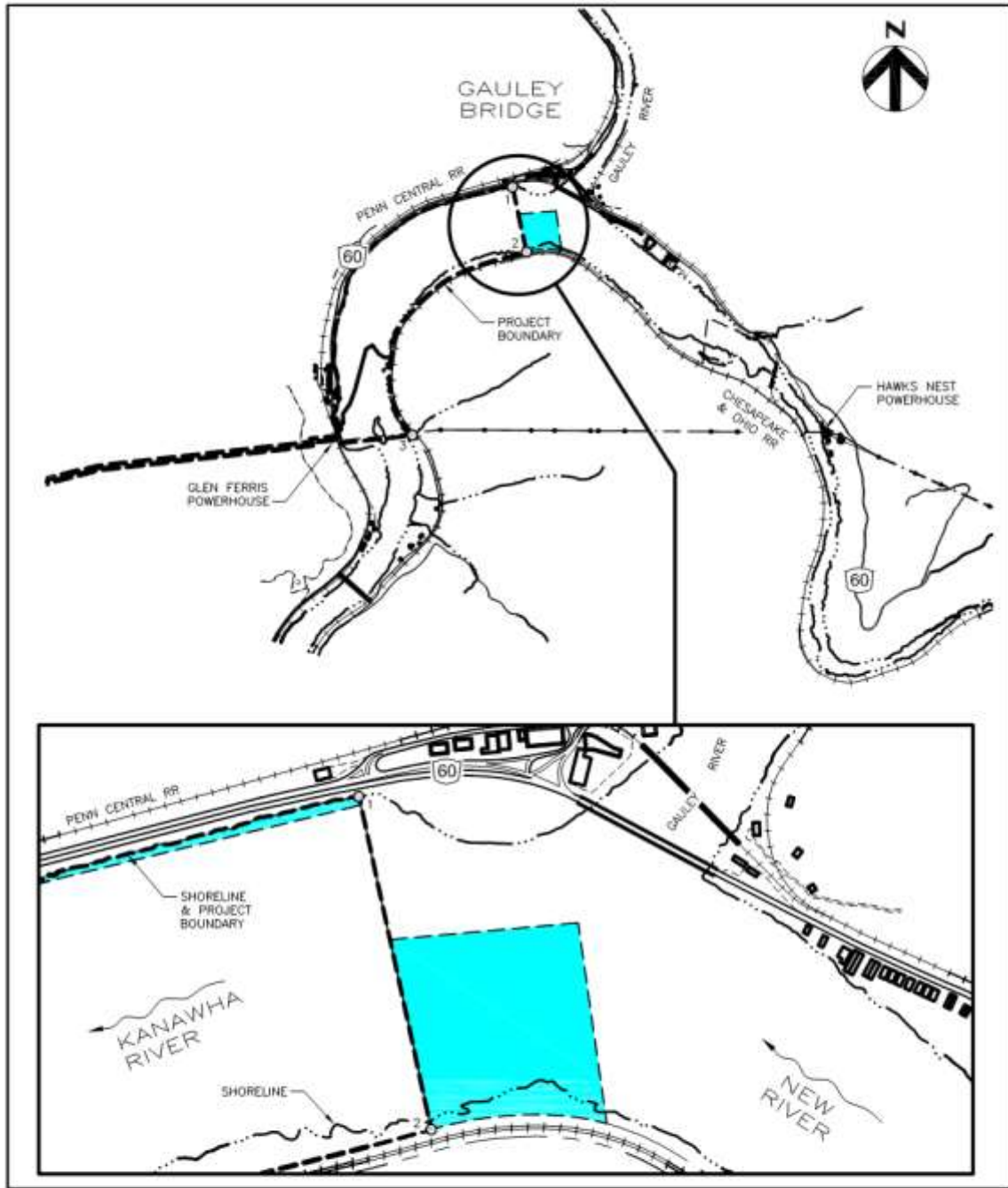
Drawing Number	Title
Exhibit G - Sheet 1 of 1	Project Boundary Map

G.1 PROJECT MAP

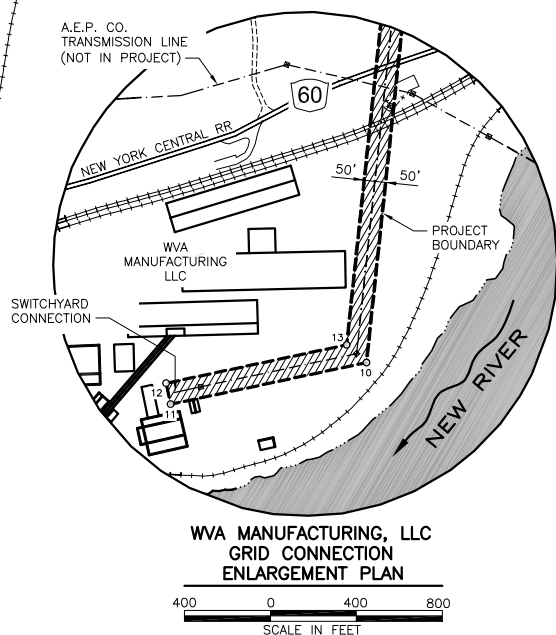
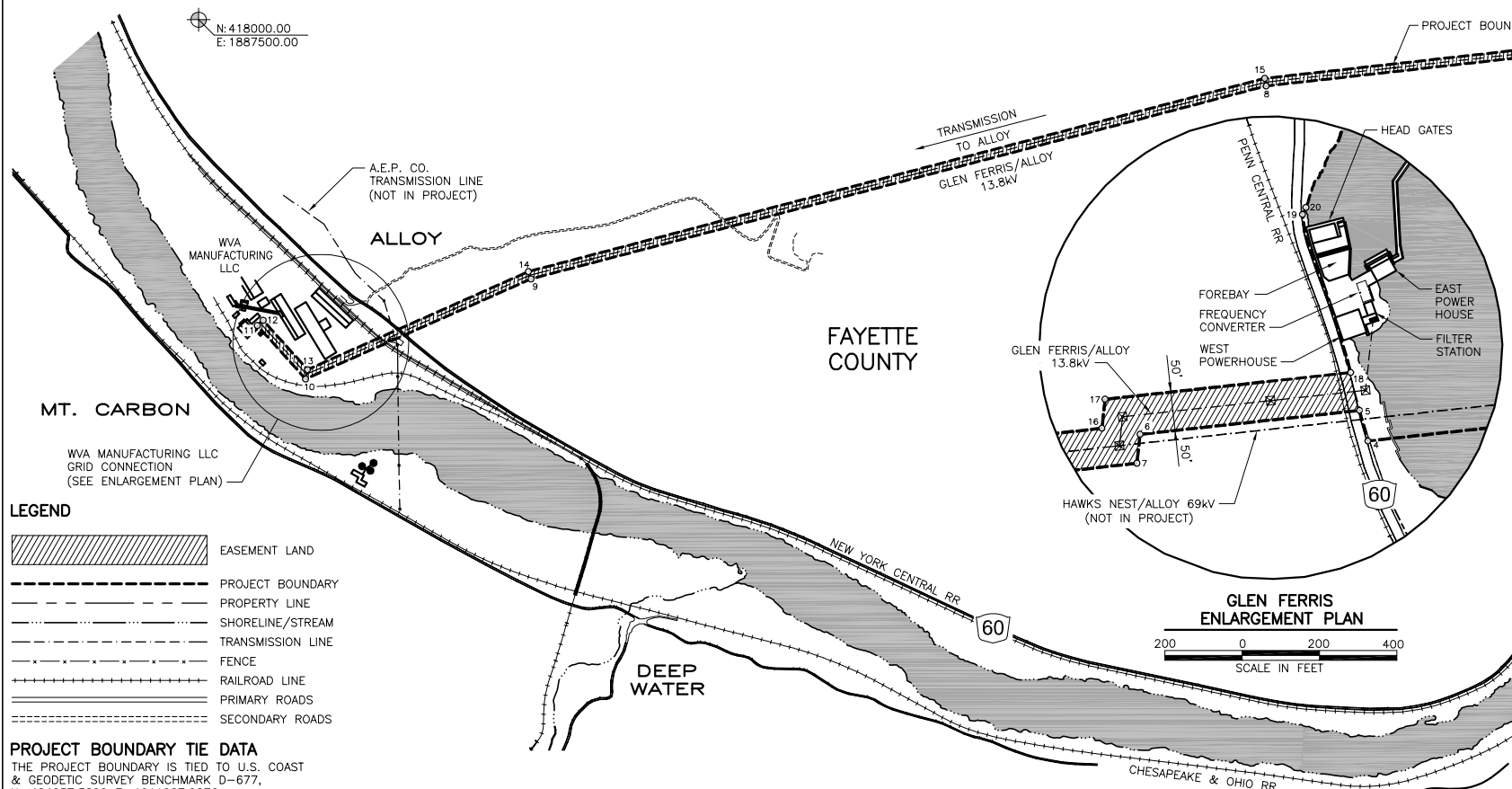
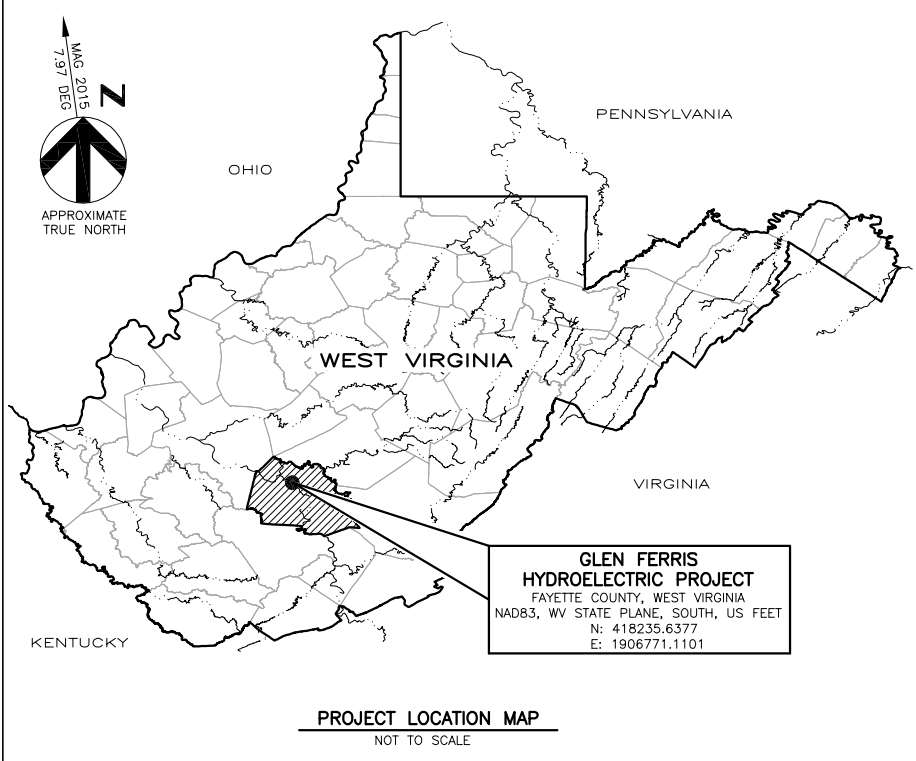
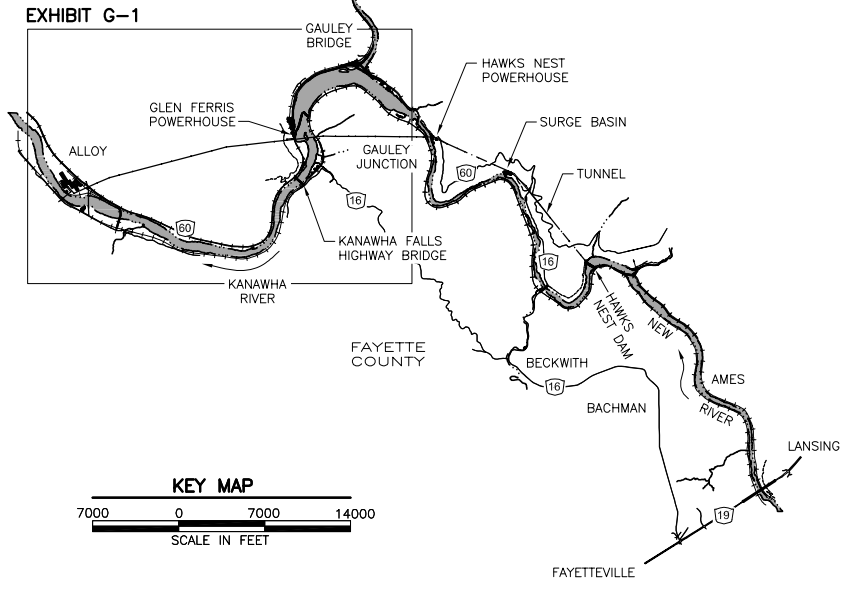
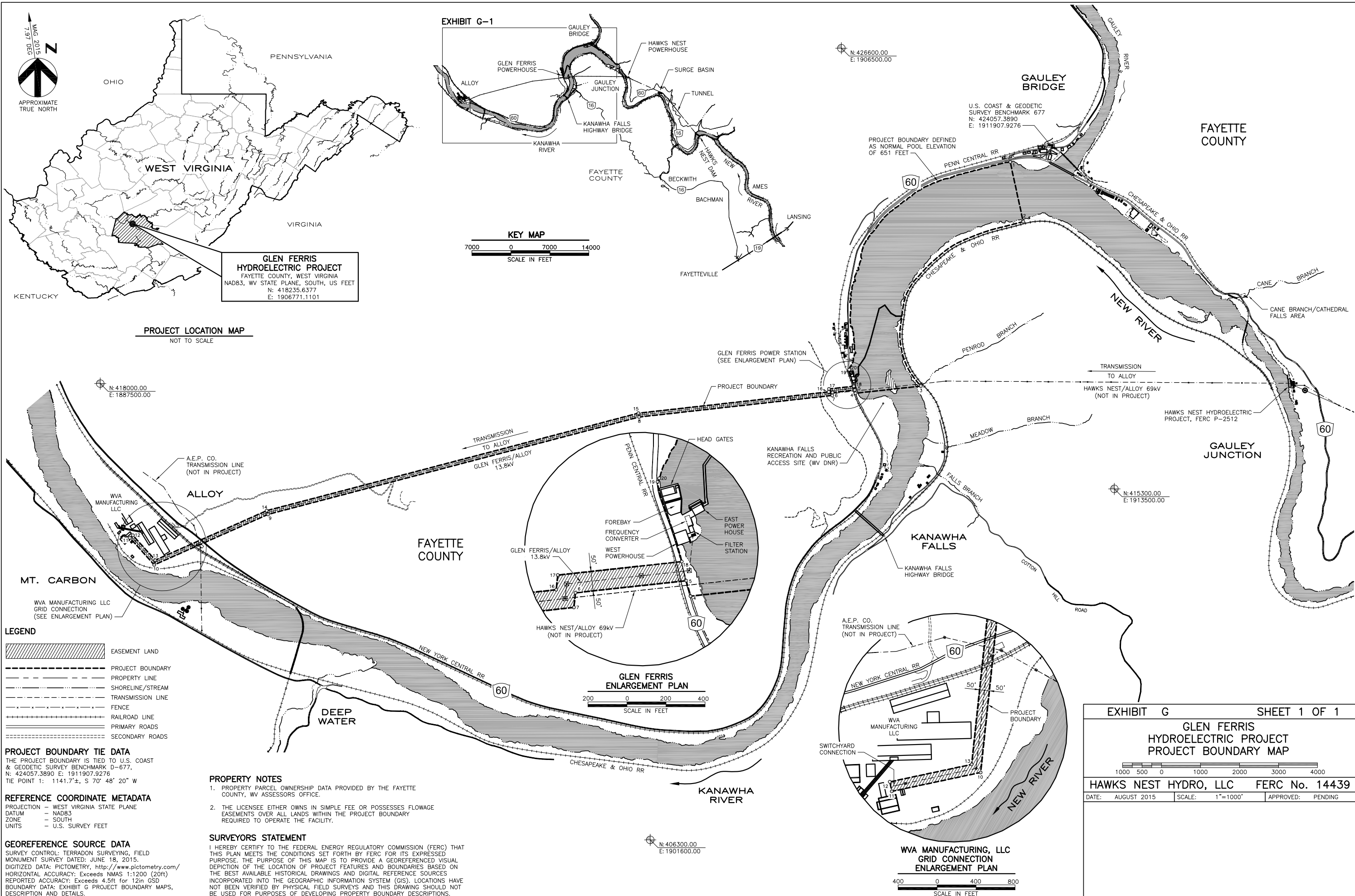
The Exhibit G map, prepared in accordance with the requirements of 18 CFR §§ 4.39 and 4.51(h), is attached hereto and incorporated herein. In addition to the corrections and modifications listed below, minor corrections to the project boundary occurred during the development of these maps to correct conflicts found between the existing FERC-approved Exhibit G drawings and the associated boundary description. Hawks Nest Hydro possesses property or easement rights to all areas associated with the project boundary.

- The FERC-approved Project Boundary Map for Glen Ferris is FERC Drawing No. 2512-18, which depicts the northern shore of the upstream end of the boundary as clearly being in the water, although the associated boundary description actually puts the boundary closer to the shoreline than is shown on the approved Exhibit G map. The upper extent of the approved project boundary also follows property lines and jogs as it crosses the river. Hawks Nest Hydro proposes to adjust the boundary in this location to follow the shoreline at the normal pool elevation of 651 feet, and has removed the jog so that the boundary crosses the river cleanly. Figure G-1 shows the existing FERC-approved boundary and the proposed boundary shown on the attached Exhibit G map as support for this proposed boundary adjustment.

FIGURE G-1 GLEN FERRIS PROJECT BOUNDARY ADJUSTMENT



GLEN FERRIS PROJECT
PROJECT BOUNDARY MAP



LEGEND

	EASEMENT LAND
	PROJECT BOUNDARY
	PROPERTY LINE
	SHORELINE/STREAM
	TRANSMISSION LINE
	FENCE
	RAILROAD LINE
	PRIMARY ROADS
	SECONDARY ROADS

PROJECT BOUNDARY TIE DATA
 THE PROJECT BOUNDARY IS TIED TO U.S. COAST & GEODETIC SURVEY BENCHMARK D-677,
 N: 424057.3890 E: 1911907.9276
 TIE POINT 1: 1141.7'±, S 70° 48' 20" W

REFERENCE COORDINATE METADATA
 PROJECTION - WEST VIRGINIA STATE PLANE
 DATUM - NAD83
 ZONE - SOUTH
 UNITS - U.S. SURVEY FEET

GEOREFERENCE SOURCE DATA
 SURVEY CONTROL: TERRADON SURVEYING, FIELD MONUMENT SURVEY DATED: JUNE 18, 2015.
 DIGITIZED DATA: PICTOMETRY, <http://www.pictometry.com/>
 HORIZONTAL ACCURACY: Exceeds NMAS 1:1200 (20ft)
 REPORTED ACCURACY: Exceeds 4.5ft for 12in GSD
 BOUNDARY DATA: EXHIBIT G PROJECT BOUNDARY MAPS, DESCRIPTION AND DETAILS.

- PROPERTY NOTES**
- PROPERTY PARCEL OWNERSHIP DATA PROVIDED BY THE FAYETTE COUNTY, WV ASSESSOR'S OFFICE.
 - THE LICENSEE EITHER OWNS IN SIMPLE FEE OR POSSESSES FLOWAGE EASEMENTS OVER ALL LANDS WITHIN THE PROJECT BOUNDARY REQUIRED TO OPERATE THE FACILITY.

SURVEYORS STATEMENT
 I HEREBY CERTIFY TO THE FEDERAL ENERGY REGULATORY COMMISSION (FERC) THAT THIS PLAN MEETS THE CONDITIONS SET FORTH BY FERC FOR ITS EXPRESSED PURPOSE. THE PURPOSE OF THIS MAP IS TO PROVIDE A GEOREFERENCED VISUAL DEPICTION OF THE LOCATION OF PROJECT FEATURES AND BOUNDARIES BASED ON THE BEST AVAILABLE HISTORICAL DRAWINGS AND DIGITAL REFERENCE SOURCES INCORPORATED INTO THE GEOGRAPHIC INFORMATION SYSTEM (GIS). LOCATIONS HAVE NOT BEEN VERIFIED BY PHYSICAL FIELD SURVEYS AND THIS DRAWING SHOULD NOT BE USED FOR PURPOSES OF DEVELOPING PROPERTY BOUNDARY DESCRIPTIONS.

EXHIBIT G SHEET 1 OF 1

GLEN FERRIS HYDROELECTRIC PROJECT PROJECT BOUNDARY MAP

HAWKS NEST HYDRO, LLC FERC No. 14439

DATE: AUGUST 2015 SCALE: 1"=1000' APPROVED: PENDING

CAD FILENAME: P-14439-XXXX-G-1, GLEN FERRIS PROJECT BOUNDARY MAP, XX-XX-XXXX.DWG

Exhibit H

Ability to Operate (18 CFR §5.18(c))

As a result of the Electric Consumers Protection Act (ECPA) passed by Congress in 1986, the Commission requires that all existing licensees applying for a new license provide the following information. The following is Hawks Nest Hydro's response to the ECPA Information Request.

This section is still under development and will be included in the final license application.

H.1 LICENSEE'S ABILITY TO PROVIDE EFFICIENT AND RELIABLE ELECTRIC SERVICE (18 CFR § 5.18(C)(1)(I)(A))

H.1.1 Increase in Capacity or Generation

H.1.2 Coordination of Operation with Upstream and Downstream Projects

H.1.3 Coordination of Operation with Electrical Systems

H.2 NEED FOR PROJECT POWER (18 CFR § 5.18(C)(1)(I)(B) AND (C))

H.2.1 Cost and Availability of Alternative Sources of Power

H.2.2 Increase in Fuel, Capital, and Other Costs to Purchase or Generate Replacement Power

H.2.3 Effect of Alternative Power Sources on Licensee’s Customers, Operating and Load Characteristics, and Communities Served

H.3 POWER SUPPLY AT INDUSTRIAL FACILITY (18 CFR § 5.18(C)(1)(I)(D))

Since Hawks Nest Hydro does not use the power generated at their facilities for their own use, this section is not applicable.

H.4 INDIAN TRIBE AS APPLICANT (18 CFR § 5.18(C)(1)(I)(E))

Since Hawks Nest Hydro is not an Indian tribe, this section is not applicable.

H.5 IMPACTS OF RECEIVING OR NOT RECEIVING A LICENSE ON LICENSEE’S OPERATIONS OF THE TRANSMISSION FACILITY (18 CFR § 5.18(C)(1)(I)(F))

A single-line diagram for the Glen Ferris Project is being filed as CEII with the Commission in Volume V of this application under separate cover.

H.6 MODIFICATIONS TO PROJECT FACILITIES AND CONSISTENCY WITH COMPREHENSIVE PLANS (18 CFR § 5.18(C)(1)(I)(G) AND (H))

H.6.1 Project Modifications

H.6.2 Comprehensive Plans

H.7 FINANCIAL AND PERSONNEL RESOURCES (18 CFR § 5.18(C)(1)(I)(I))

H.7.1 Financial Resources**H.7.2 Personnel Resources****H.8 EXPANSION OF PROJECT LANDS (18 CFR § 5.18(C)(1)(I)(J))****H.9 ELECTRICITY CONSUMPTION EFFICIENCY IMPROVEMENT PROGRAM (18 CFR § 5.18(C)(1)(I)(K))****H.10 NAMES AND ADDRESSES OF INDIAN TRIBES WITH LAND ON WHICH THE PROJECT IS LOCATED OR TRIBES THAT MAY BE AFFECTED BY THE PROJECT AS PROPOSED (18 CFR § 5.18(C)(1)(I)(L))****H.11 SAFE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE PROJECT (18 CFR § 5.18(C)(1)(II)(B))****H.11.1 Safe Management, Operation, and Maintenance****H.11.2 Operating During Flood Conditions**

H.11.3 Emergency Action Plan Events**H.11.4 Warning Devices for Downstream Public Safety****H.11.5 Monitoring Devices****H.11.6 Employee Safety and Public Safety Record****H.12 CURRENT OPERATION OF THE PROJECT (18 CFR § 5.18(C)(1)(II)(C))****H.13 PROJECT HISTORY (18 CFR § 5.18(C)(1)(II)(D))****H.14 SUMMARY OF GENERATION LOST AT THE PROJECT DUE TO UNSCHEDULED OUTAGES (18 CFR § 5.18(C)(1)(II)(E))****H.15 RECORD OF COMPLIANCE (18 CFR § 5.18(C)(1)(II)(F))****H.16 ACTIONS THAT AFFECT THE PUBLIC (18 CFR § 5.18(C)(1)(II)(G))**

**H.17 OWNERSHIP AND OPERATING EXPENSES AFFECTED BY
TRANSFER OF LICENSE (18 CFR § 5.18(C)(1)(II)(H))**

**H.18 ANNUAL FEES UNDER PART I OF FEDERAL POWER ACT
(FPA) (18 CFR § 5.18(C)(1)(II)(I))**

Given that there are no federal or Indian lands associated with the Project, Hawks Nest Hydro does not pay any annual fees under Part I of the FPA.

Literature Cited

This section is still under development and will be included in the final license application.