



# FLAMBEAU UPPER FERC PROJECT #2640

## CONSTRUCTION AND KEY DATES

Owner.....Flambeau Hydro, LLC  
 Date of Purchase.....January 23, 2001  
 Online Date.....1996  
 License Effective Date.....February 1, 1997  
 License Expiration Date.....February 1, 2037

## HYDROLOGIC DATA

River.....Flambeau River  
 County.....Price County, WI  
 Nearest City.....Park Falls  
 Drainage Area Square Miles.....720  
 Reservoir Acres.....432  
 Storage Volume Acre Feet.....3280  
 Average Flow CFS.....700 CFS  
 Probable Maximum Flood CFS.....90,850 CFS  
 Flood of Record.....5,900 CFS  
 100 Year Flood.....7,000 CFS

## OPERATIONAL DATA

Normal Headwater Elevation.....1487.40  
 Minimum Headwater Elevation.....1487.15  
 Maximum Headwater Elevation.....1487.65  
 Normal Operating Head.....19.3'  
 Number of Units.....2  
 Maximum Generating Capacity.....1,080 KW  
 Annual Generation.....5.0 GWH  
 Maximum Turbine Discharge CFS.....868 CFS  
 Hazard Rating.....High  
 Minimum Flow.....300 CFS

## STRUCTURAL DATA

Dam Type.....Concrete Gravity Dam  
 Overall Length and Height.....100' Long x 15' High  
 Power Canal.....1300' Long  
 Penstock.....N/A  
 Spillway Description:  
 Needle Log Dam.....44' Long  
 4-Tainter Gate Sections.....20.5' Long

## PLANT DATA

Turbine Manufacturer.....S. Morgan Smith Co.  
 Turbine Identification:  
 Unit #1.....Leffel 33" Horizontal  
 Unit #2.....Leffel 33" Horizontal  
 Turbine CFS @ 100% Gate:  
 Unit #1.....434 CFS  
 Unit #2.....434 CFS  
 Generator Identification:  
 Unit #1.....Westinghouse Co.  
 Unit #2.....Westinghouse Co.  
 Generator Nameplate Rating KVA:  
 Unit #1.....500 KVA  
 Unit #2.....500 KVA  
 Generator Horsepower:  
 Unit #1.....650  
 Unit #2.....650  
 Generator Speed RPM:  
 Unit #1.....225 RPM  
 Unit #2.....225 RPM  
 Generator Voltage:  
 Unit #1.....480  
 Unit #2.....480