



FLAMBEAU LOWER FERC PROJECT #2421

CONSTRUCTION AND KEY DATES

Owner..... Flambeau Hydro, LLC
 Date of Purchase..... January 23, 2001
 Date Originally Built..... 1923
 Online Date..... 1966
 License Effective Date..... February 5, 1997
 License Expiration Date..... February 1, 2037

HYDROLOGIC DATA

River..... Flambeau River
 County..... Price County, WI
 Nearest City..... Park Falls
 Drainage Area Square Miles..... 762
 Reservoir Acres..... 71
 Storage Volume Acre Feet..... 570
 100-Year Flood CFS..... No Data
 Probable Maximum Flood CFS..... No Data

OPERATIONAL DATA

Normal Headwater Elevation..... 1468.00
 Minimum Headwater Elevation..... 1467.75
 Maximum Headwater Elevation..... 1468.25
 Normal Operating Head..... 19'
 Number of Units..... 3
 Maximum Generating Capacity..... 1,200 KW
 Annual Generation..... 4.5 GWH
 Maximum Turbine Discharge CFS..... 1,140 CFS
 Hazard Rating..... Low
 Spillway Capacity CFS..... 16,200 CFS

STRUCTURAL DATA

Dam Type..... Concrete Gravity Dam / Earthen
 Overall Length and Height..... 340' Long x 22' High
 Power Canal..... N/A
 Penstock..... N/A
 Spillway Description:
 1-Concrete Gated (4) Spillway..... 102' Long
 1-Left Earthen Dike..... 80' Long x 22' High
 1-Right Earthen Dike..... 64' Long x 22' High

PLANT DATA

Turbine Manufacturer..... Allis Chalmers
 Turbine Identification:
 Unit #2..... Allis Chalmers Vertical
 Unit #3..... Allis Chalmers Vertical
 Unit #4..... Allis Chalmers Vertical
 Turbine CFS @ 100% Gate:
 Unit #2..... 380 CFS
 Unit #3..... 380 CFS
 Unit #4..... 380 CFS
 Generator Identification:
 Unit #2..... Allis Chalmers
 Unit #3..... Allis Chalmers
 Unit #4..... Allis Chalmers
 Generator Nameplate Rating KVA:
 Unit #2..... 500 KVA
 Unit #3..... 500 KVA
 Unit #4..... 500 KVA
 Generator Horsepower:
 Unit #2..... 600
 Unit #3..... 600
 Unit #4..... 600
 Generator Speed RPM:
 Unit #2..... 257 RPM
 Unit #3..... 257 RPM
 Unit #4..... 257 RPM
 Generator Voltage:
 Unit #2..... 2300
 Unit #3..... 2300
 Unit #4..... 2300