



FLAMBEAU CROWLEY FERC PROJECT #2473

CONSTRUCTION AND KEY DATES

Owner.....Flambeau Hydro, LLC
 Date of Purchase.....December 20, 1999
 Date Originally Built.....1930
 Online Date.....1931
 License Effective Date.....February 1, 1997
 License Expiration Date.....February 1, 2037

HYDROLOGIC DATA

River.....Flambeau River
 County.....Price County, WI
 Nearest City.....Fifield
 Drainage Area Square Miles.....820
 Reservoir Acres.....422
 Storage Volume Acre Feet.....3540
 Average Flow CFS.....795 CFS
 Probable Maximum Flood CFS.....53,400 CFS
 Flood of Record.....4,540 CFS

OPERATIONAL DATA

Normal Headwater Elevation.....1428.00
 Minimum Headwater Elevation.....1427.75
 Maximum Headwater Elevation.....1428.25
 Normal Operating Head.....21'
 Number of Units.....2
 Maximum Generating Capacity.....1,730 KW
 Annual Generation.....7.2 GWH
 Maximum Turbine Discharge CFS.....1,325 CFS
 Hazard Rating.....High

STRUCTURAL DATA

Dam Type.....Earthen / Concrete Gravity Dam
 Overall Length and Height.....513' Long x 23' High
 Power Canal.....N/A
 Penstock.....N/A
 Spillway Description:
 Left.....2 - 9' Wide x 13' High Stop Log Gate
 Center.....1 - 20' Wide x 19' High Tainter Gate
 Right.....1 - 20' Wide x 19' High Tainter Gate

PLANT DATA

Turbine Manufacturer.....S. Morgan Smith Company
 Turbine Identification:
 Unit #8.....S. Morgan Smith-Kaplan 93" Runner
 Unit #9.....S. Morgan Smith Vertical
 Turbine CFS @ 100% Gate:
 Unit #8.....987 CFS
 Unit #9.....490 CFS
 Generator Identification:
 Unit #8.....Allis Chalmers
 Unit #9.....Allis Chalmers
 Generator Nameplate Rating KVA:
 Unit #8.....1250 KVA
 Unit #9.....625 KVA
 Generator Horsepower:
 Unit #8.....1600
 Unit #9.....720
 Generator Speed RPM:
 Unit #8.....150 RPM
 Unit #9.....200 RPM
 Generator Voltage:
 Unit #8.....2300
 Unit #9.....2300