



DANBURY UPPER FERC PROJECT # 9184

CONSTRUCTION AND KEY DATES

Owner.....Flambeau Hydro, LLC
 Date of Purchase.....January 23, 2001
 Date Originally Built.....1921
 Online Date.....1921
 License Effective Date.....June 10, 2007
 License Expiration Date.....September 5, 2036

HYDROLOGIC DATA

River.....Yellow River
 County.....Burnett, WI
 Nearest City.....Danbury
 Drainage Area Square Miles.....240
 Reservoir Acres.....2,800
 Storage Volume Acre Feet.....5,040
 Flood of Record.....no data
 Probable Maximum Flood CFS.....17,000 CFS

OPERATIONAL DATA

Normal Headwater Elevation.....929.21 Apr-Oct
928.11 Nov-Mar
 Minimum Headwater Elevation.....928.91 Apr-Oct
927.81 Nov-Mar
 Maximum Headwater Elevation.....929.51 Apr-Oct
928.41 Nov-Mar
 Minimum Flow.....50 CFS Dec-Feb, 123 Mar-Nov
 Normal Operating Head.....29'
 Number of Units.....2
 Maximum Generating Capacity.....470 KW
 Annual Generation.....1.8 GWH
 Maximum Turbine Discharge CFS.....262 CFS
 Spillway Capacity CFS.....1,720 CFS
 Hazard Rating.....Low

STRUCTURAL DATA

Dam Type.....Concrete Gravity Dam/Earthen
 Overall Length and Height.....54' Long x 30' High
 Power Canal.....N/A
 Penstock.....2, 26' x 69"
 Spillway Description.....48' long x 30" high, concrete w/
6 steel slide gates connecting
to a 300' long earth dike

PLANT DATA

Turbine Manufacturer.....S. Morgan Smith / Leffel
 Turbine Identification:
 Unit #1.....S. Morgan Smith 30" Type S
 Unit #2.....Leffel 24" Type Z
 Turbine CFS @ 100% Gate:
 Unit #1.....102 CFS
 Unit #2.....160 CFS
 Generator Identification:
 Unit #1.....Electric Machinery
 Unit #2.....Electric Machinery
 Generator Nameplate Rating KVA:
 Unit #1.....220 KVA
 Unit #2.....375 KVA
 Generator Horsepower:
 Unit #1.....275 HP
 Unit #2.....450 HP
 Generator Speed RPM:
 Unit #1.....227 RPM
 Unit #2.....327 RPM
 Generator Voltage:
 Unit #1.....2400
 Unit #2.....2400