WINTER
FERC PROJECT # 2064

CONSTRUCTION AND KEY DATES

Owner…….....**Flambeau Hydro, LLC**
Date of Purchase…..……..……..…**2001**
Date Originally Built……...**1950**
Online Date.....…..**1952**
License Effective Date……..…**August 12, 2005**
License Expiration Date……..…**August 01, 2045**

HYDROLOGIC DATA

River…… ……**East Fork Chippewa**
County……..……**Sawyer**
Nearest City……**Winter**
Drainage Area Square Miles……..…**286**
Reservoir Acres……...**49.6**
Storage Volume Acre Feet…….....…**165**
100-Year Flood CFS……..**5,500 CFS**
Probable Maximum Flood CFS……**12,000 CFS**

OPERATIONAL DATA

Normal Headwater Elevation……**1370.4**
Minimum Headwater Elevation……..**1370.1**
Maximum Headwater Elevation……..…**1370.7**
Normal Operating Head……**25'**
Number of Units……**2**
Maximum Generating Capacity……..**600 KW**
Annual Generation…… ……...**1.941 GWH**
Maximum Turbine Discharge CFS……..**398 CFS**
Spillway Capacity CFS……**2,400 CFS**
Hazard Rating……**Low**
Run-Of-River Minimum Flow…..**May 1st - May 31st 50 CFS**
June 1st 40 CFS
June 2nd – April 30th 30 CFS

STRUCTURAL DATA

Dam Type……**Concrete Diversion Dam**
Overall Length and Height……..……**140' x 14'**
Power Canal……**2,100'**
Penstock……..…….....**2 – 5.5' Dia.**
Spillway Description…**140' x 14' w 8 bays of Steel Gates**

PLANT DATA

Turbine Manufacturer……..**The James Leffel and Co.**
Turbine Identification:
Unit #1……**Leffel Type 37.5" F**
Unit #2……**Leffel Type 42.5" F**

Turbine CFS @ 100% Gate:
Unit #1……**174 CFS**
Unit #2……**224 CFS**

Generator Identification:
Unit #1……**Electric Machinery**
Unit #2……**Westinghouse**

Generator Nameplate Rating KVA:
Unit #1……...**312 KVA**
Unit #2……...**500 KVA**

Generator Horsepower:
Unit #1……..**300 HP**
Unit #2……..**506 HP**

Generator Speed RPM:
Unit #1……..…**200 RPM**
Unit #2……..**200 RPM**

Generator Voltage:
Unit #1……..**2400**
Unit #2……..**2400**