



AUTRAIN FERC PROJECT #10856

CONSTRUCTION AND KEY DATES

Owner.....UP Hydro, LLC
Date of Purchase.....July 2010
Date Originally Built.....1910
Online Date.....1930
License Effective Date.....June 26, 1997
License Expiration Date.....May 31, 2037

HYDROLOGIC DATA

River.....Au Train
County.....Alger
Nearest City.....Munising
Drainage Area Square Miles.....82.4
Reservoir Acres.....1557
Storage Volume Acre Feet.....12,342
100-Year Flood CFS.....1985.....2,725
Probable Maximum Flood CFS.....76,000

OPERATIONAL DATA

Normal Headwater Elevation.....779.3 +/- 1.5
Minimum Headwater Elevation...777.3 & 773.7 late winter
Maximum Headwater Elevation.....781.3
Normal Operating Head.....124
Number of Units.....2
Maximum Generating Capacity.....1,000
Annual Generation.....5.1 GWH
Maximum Turbine Discharge CFS.....140
Spillway Capacity CFS.....5,500
Hazard Rating.....High
Run-Of-River Minimum Flow.....50

STRUCTURAL DATA

Dam Type.....Gravity
Overall Length and Height.....1,500 x 38
Power Canal.....N/A
Penstock.....5' 6" steel 2,516' long
Spillway Description.....100' long x 29' high gated

PLANT DATA

Turbine Manufacturer.....Pelton Water Wheel
Turbine Identification:
Unit #1.....horizontal runner
Unit #2.....horizontal runner
Turbine CFS @ 100% Gate:
Unit #1.....70
Unit #2.....70

Generator Identification:
Unit #1.....General Electric
Unit #2.....General Electric

Generator Nameplate Rating KVA:
Unit #1.....560
Unit #2.....560

Generator Horsepower:
Unit #1.....800
Unit #2.....800

Generator Speed RPM:
Unit #1.....600
Unit #2.....600

Generator Voltage:
Unit #1.....2300
Unit #2.....2300