



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

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

HYDROLOGIC DATA

River AuTrain
 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 20,500

PLANT DATA

Turbine Manufacturer Pelton Water Wheel
 Turbine Identification:
 Unit #1 Francis horizontal runner
 Unit #2 Francis horizontal runner

Turbine CFS @ 100% Gate:
 Unit #1 136.5
 Unit #2 136.5

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

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