



# 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.....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

## 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

## 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