



# 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 ..... 7 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