



CATARACT FERC PROJECT #10854

CONSTRUCTION AND KEY DATES

OwnerUP Hydro, LLC
 Date of PurchaseFebruary 2011
 Date Originally Built 1929
 Online Date 1929
 License Effective DateFebruary 1997
 License Expiration Date January 2037

HYDROLOGIC DATA

River Middle Branch Escanaba
 CountyMarquette
 Nearest CityMarquette, MI
 Drainage Area Square Miles 210
 Reservoir Acres 180
 Storage Volume Acre Feet 860
 100-Year Flood CFS 1972 2,580
 Probable Maximum Flood CFS unknown

OPERATIONAL DATA

Normal Headwater Elevation 1173.5
 Minimum Headwater Elevation 1173.25
 Maximum Headwater Elevation 1173.75
 Normal Operating Head 63
 Number of Units 1
 Maximum Generating Capacity 2,000
 Annual Generation 3.5 GWH
 Maximum Turbine Discharge CFS 372
 Spillway Capacity CFS 4 300
 Hazard Rating Low
 Run-Of-River Minimum Flow 50

STRUCTURAL DATA

Dam Type Concrete Gravity
 Overall Length and Height 265 x 8
 Power Canal N/A
 Penstock 1,308' upstream – 121' downstream
 Spillway Description Weir Overflow w/ Flashboards
 19 bays total -18 @ 10' & 1@ 5.3'

PLANT DATA

Turbine Manufacture Kiser Hydro
 Turbine Identification:
 Unit #1 Kaplan horizontal
 Turbine CFS @ 100% Gate:
 Unit #1 415
 Generator Identification:
 Unit #1 Westinghouse
 Generator Nameplate Rating KVA:
 Unit #1 2,500
 Generator Horsepower:
 Unit #1 2,700
 Generator Speed RPM:
 Unit #1 257
 Generator Voltage:
 Unit #1 2400