



# Maquoketa State ID #1302

### CONSTRUCTION AND KEY DATES

Owner..... Iowa Hydro, LLC  
 Date of Purchase..... 2006  
 Date Originally Built..... 1923  
 Online Date..... 1923  
 License Effective Date... Outside FERC Jurisdiction

### HYDROLOGIC DATA

River..... Maquoketa River  
 County..... Jackson, IA  
 Nearest City..... Maquoketa, IA  
 Drainage Area Square Miles..... 953  
 Reservoir Acres..... 340  
 Storage Volume Acre Feet..... 4419

### OPERATIONAL DATA

Normal Headwater Elevation..... N/A  
 Minimum Headwater Elevation..... N/A  
 Maximum Headwater Elevation..... N/A  
 Normal Operating Head..... 25 ft.  
 Number of Units..... 2  
 Maximum Generating Capacity..... 1200 KW  
 Annual Generation..... 6355 MWH  
 Maximum Turbine Discharge CFS..... 770  
 Spillway Capacity CFS..... No Data  
 Hazard Rating..... Low  
 Run-Of-River Minimum Flow..... None

### STRUCTURAL DATA

Dam Type..... Concrete Gravity  
 Overall Length and Height..... 700 ft. long x 26 ft. high  
 Spillway Description.....  
     60 ft. break-way spillway  
     6 – 24 ft. wide radial spill gates

### PLANT DATA

Turbine Manufacturer..... James Leffel & Co  
 Turbine Identification:  
     Unit #1..... 39Z  
     Unit #2..... 39Z  
 Turbine CFS @ 100% Gate:  
     Unit #1..... 385  
     Unit #2..... 385  
 Generator Identification:  
     Unit #1..... General Electric  
     Unit #2..... General Electric  
 Generator Nameplate Rating KVA:  
     Unit #1..... 750  
     Unit #2..... 750  
 Generator Horsepower:  
     Unit #1..... 1030  
     Unit #2..... 1030  
 Generator Speed RPM:  
     Unit #1..... 180  
     Unit #2..... 180  
 Generator Voltage:  
     Unit #1..... 2300  
     Unit #2..... 2300