

On June 29, 2023 WSLJ, Watertown, NY (Facility ID 66429) returned to full power operation under licensed operating parameters from BLED-20130322ACS granted April 4, 2013.

ERP: .280 kW Frequency 88.9

Antenna: SHI 6812B-2

Height AGL: 67 Meters

Height AMSL: 372 Meters

Height AAT: 130

Skywaves ERP Calculator

2023-06-30_13-42-26

Client: NCPR
Call sign: WSLJ

Frequency: 88.9 MHz
ERP: 0.280 kW

Transmission Line 1 Type: LDF5 (Foam 7/8")
Power capacity: 8.101 kW
Line Loss: 0.957 dB (85.3 m @ 1.122 dB per 100 m)
Connector loss: 0.030 dB (2 connectors @ 0.0149 dB each)

Transmission Line 2 Type: LMR-400 (0.4" coax)
Power capacity: 1.921 kW
Line Loss: 0.186 dB (4.9 m @ 3.823 dB per 100 m)
Connector loss: 0.060 dB (4 connectors @ 0.0149 dB each)
Total system losses: 1.233 dB (76.8% efficiency)

Antenna: Shively 6812B-2
Antenna Power Gain: 0.990
Antenna Input Power: 0.283 kW (5% of antenna power rating)
System Gain: 0.761

Transmitter Power Output: 0.368 kW (19% of line capacity)
**Rounded TPO per 73.212: 0.370 kW

**TPO is changed from licensed .350 kW to reflect transmission line length changes.