

Antenna Resistance Measurements
WEJL(AM) 630 kHz, Scranton, PA (Facility ID 66363)
WBZU(AM) 910 kHz, Scranton, PA (Facility ID 36200)
March 25, 2010

These measurements of the base impedance of the WEJL/WBZU antenna tower were made on March 25, 2010 in accordance with 47 CFR § 73.45 and 47 CFR § 73.54 following installation of a new transmit antenna for FM translator W274AO on the tower at 86 meters above ground level as shown in Figure 1. The W274AO translator antenna is fed with ½ inch foam dielectric transmission line with a Garner Products ICR-100NF isocoupler mounted at the base of the tower to isolate the line at medium-wave frequencies.

WEJL

Prior to measurement, the calibration of a Delta Electronics model OIB-1 operating impedance bridge, serial number 118 and property of the undersigned, was verified against General Radio standard resistors type 874-W50 (50 ohms) and type 500-D (100 ohms) and found to agree within 1 percent at 630 kHz. This bridge was inserted at jack J102 in the Kintronic Labs diplexer which combines the signals of WEJL and WBZU. J102, which precedes the 630 kHz pass/ 910 kHz reject network, immediately follows WEJL's RF ammeter and is the point where direct power measurements are normally taken. The following readings were noted at the 630 kHz carrier frequency with WEJL operating at 2.0 kW daytime power:

Resistance: 21.0 ohms
Capacitive Reactance: 30.2 ohms

WEJL's licensed antenna resistance is 20.8 ohms per BL-20021004ADJ. Since the measured resistance value differs by less than 1 percent, 47 CFR § 73.45(c)(1) exempts WEJL from filing a revised Form 302.

WBZU

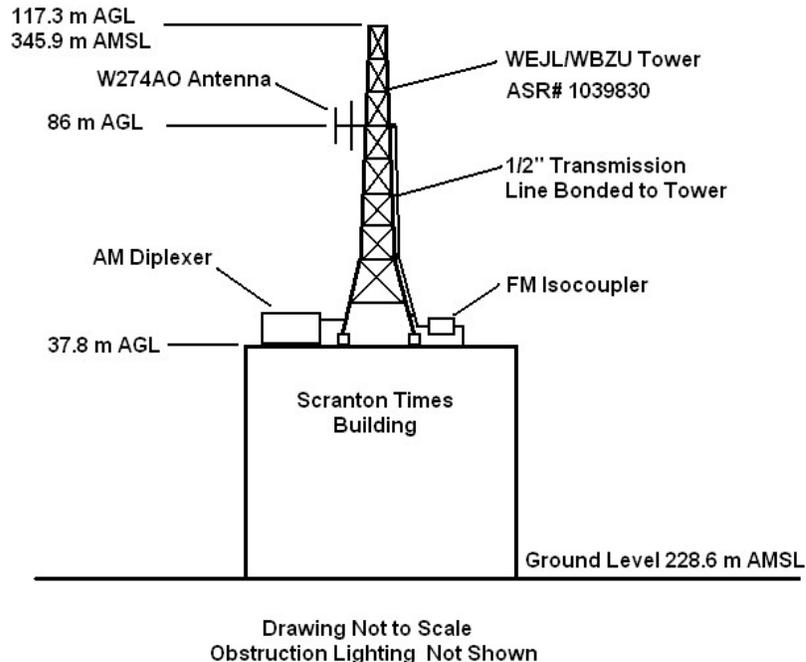
The WBZU measurements were taken with the assistance of WBZU Engineer Ray Russ using a Delta Electronics model OIB-1 operating impedance bridge, serial number 175, which is the property of Entercom Wilkes-Barre Scranton, licensee of WBZU and in recent calibration. This bridge was inserted at jack J202 in the Kintronic Labs diplexer which combines the signals of WEJL and WBZU. J202, which precedes the 910 kHz pass/ 630 kHz reject network, immediately follows WBZU's RF ammeter and is the point where direct power measurements are normally taken.

The following readings were noted at the 910 kHz carrier frequency with WBZU operating at 0.9 kW daytime power:

Resistance: 106.5 ohms
Capacitive Reactance: 27.3 ohms

WBZU's licensed antenna resistance is 107.5 ohms per BL-20070116AEE. Since the measured resistance value differs by less than 1 percent, 47 CFR § 73.45(c)(1) exempts WBZU from filing a revised Form 302.

Figure 1 – Sketch of W274AO Antenna Installation



Certification

These measurements were made by me or under my supervision on March 25, 2010 and are correct to the best of my knowledge. I am presently certified as a Professional Broadcast Engineer by the Society of Broadcast Engineers and hold FCC General Radiotelephone Operator License PG-3-5568.

/s/ Mark D. Humphrey