

Report of Dark Status
Radio Station WRRS,
Channel 203A, Middleborough Center, Massachusetts
FCC Facility ID No. 177016
May 2012

ATTACHMENT TO EXHIBIT 4
STATEMENT RE CESSATION OF OPERATIONS

1. Talking Information Center, Inc. (*TIC*), is the licensee of Noncommercial Educational Station WRRS. TIC filed its application for an initial station license to cover Construction Permit on April 25, 2012. See FCC File No. BLED-20120425AAI. On or about April 27, 2012, TIC commenced operations of station WRRS with the parameters specified in the license application. The FCC granted the license application on May 4, 2012.

2. The WRRS antenna is mounted on the tower that serves as the licensed radiator for station WVBF(AM), 1530 kHz, Middleborough Center, Massachusetts, FCC Facility ID No. 63403. To prevent the medium-frequency r.f. current from the WVBF transmitter from reaching and affecting the WRRS transmitter, an isocoupler is installed at the base of the WVBF tower. One length of transmission line connected to the isocoupler runs up the WVBF tower to the WRRS antenna. Another length of transmission line run from the isocoupler into the equipment shelter, where it connects to the output of the power-amplifier component of the WRRS main transmitter.

3. On or about April 29, 2012, the isocoupler failed. It appears that an impedance-mismatch and a resulting high Standing Wave Ratio developed. Excessive reflected r.f. power caused heating of the output connector on the WRRS power amplifier, causing the inner PTFE insulator of the connector to melt. As a protective measure, the WRRS transmitter shut itself down.

4. Apart from some brief tests, the station has been off the air since that time.

5. Station WRRS's Chief Operator removed the isocoupler and the power amplifier, and sent them back to their respective manufacturers for repair or replacement. The manufacturer of the isocoupler has indicated that the unit was indeed defective. The manufacturer is replacing it with a new unit. The replacement is scheduled to arrive by May 14. TIC does not yet know when the r.f. power amplifier will be repaired and returned.

6. TIC intends, when the replacement isocoupler arrives, to install it and to feed the WRRS antenna with the r.f. output of WRRS's Armstrong FMX-30B exciter. If the isocoupler is operating properly, and if the exciter encounters no problems, TIC intends to operate the station in this fashion until the repaired r.f. power amplifier returns from the manufacturer. In such event, operations will be with the following parameters.

Antenna Type	Shiveley 6810
Number of Bays	One
Inter-Bay Spacing	Not Applicable
Operating Frequency	88.5 MHz
Transmission-Line Type	Andrew AVA5-50 Foam-Dielectric Coax
Transmission-Line Length	60 meters
Nominal Transmission-Line Diameter	2.22 centimeters (7/8 inch)
Transmission-Line Attenuation Per Unit Length	-0.01042 dB/meter
Transmission-Line Loss (Transmission-Line Efficiency)	-0.625 dB (86.6%)
Connector Losses	-0.0596 dB (4 connectors x -0.0149 dB/connector)
Isocoupler Loss	-0.800 dB
Total Line and Isocoupler Losses (Total Line and Isocoupler Efficiency)	-1.485 dB (71.0%)
Transmitter Output Power	30 Watts (-15.229 dBk)
Transmitter Output Power (Rounded per § 73.212)	30 Watts (-15.229 dBk)
Antenna R.F. Input Power	21.2 Watts (-16.716 dBk)
Antenna R.F. Input Power (Rounded per § 73.212)	21 Watts (-16.778 dBk)
Maximum Horizontal Antenna Gain	0.842 (-0.747 dB)
Maximum Vertical Antenna Gain	0.842 (-0.747 dB)

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Maximum Horizontal ERP	17.85 Watts (-17.484 dBk)
Maximum Horizontal ERP (Rounded per § 73.212)	18.0 Watts (-17.447 dBk)
Maximum Vertical ERP	17.85 Watts (-17.484 dBk)
Maximum Vertical ERP (Rounded per § 73.212)	18.0 Watts (-17.447 dBk)

7. TIC intends to file a supplemental report with the FCC when station WRRS returns to the air. If the arrival of the repaired power amplifier is delayed, and operations with the above parameters extend for ten days, TIC intends to file a further report, to satisfy the requirements of § 73.1560(d) of the Rules. If operation at reduced power will extend for twenty days, TIC intends to request a Special Temporary Authority, per §§ 73.1560(d) and 73.1635 of the Rules.