

**ENGINEERING STATEMENT IN SUPPORT OF 302-AM**

**APPLICATION FOR LICENSE**

**WSHU(AM) 1260 kHz 0.072/0.69 kW LS ND WESTPORT, CONNECTICUT**

**SUMMARY**

The following engineering statement has been prepared on behalf of Sacred Heart University, licensee of standard broadcast station WSHU(AM). The WSHU(AM) facilities described herein are currently authorized under FCC File Number BP-20220930AAE. This document includes the information required to demonstrate that the antenna system is constructed and operating in compliance with applicable FCC technical rules and the conditions specified on BP-20220930AAE.

The tower is an existing structure carrying FCC Registration #1046320.

The feed point impedance of the tower, as specified in the application for CP, was measured at the bottom of the internally fed, shunt feed wire.

Section III of FCC Form 302-AM, specifying the parameters necessary to license WSHU(AM) is part of the 302-AM application filed with this engineering statement.

**WSHU(AM) OPERATING PARAMETERS**

Measured Base Impedance:	11 – J30
Daytime Base Current for 0.69 kW:	7.92 Amps
Weston model 36 RF ammeter	0 – 10 Amps
Nighttime Base Current for 0.072 kW:	2.55 Amps

**TEST EQUIPMENT & IMPEDANCE MEASUREMENTS**

Impedance measurements were taken with an OIB-1, serial number 1532, calibrated against a standard resistor for 50 ohms. Operation at other were impedances checked using known, non-inductive, resistors of various values. The tower base impedance was measured at the J Plug location utilized by the plug in RF ammeter.

## WSHU(AM) CONSTRUCTION PERMIT SPECIAL OPERATING CONDITIONS

1. The tower and ground system are as described on the CP.
2. The permittee/licensee will reduce power as necessary to comply with reasonable complaints of blanketing interference within the 1 V/m contour.
3. The permittee/licensee will reduce power or cease operation as necessary to meet all OET-65 public and worker exposure guidelines.

### FIELD PERSONNEL

Impedance measurements and other work necessary to complete the installation in accordance with the CP were undertaken by Paul Litwinovich, retired Sacred Heart Univ. Director of Engineering and Kurt Hanson, current Sacred Heart Univ. Director of Engineering, both of whose qualifications are known to the affiant.

### CONCLUSION

Based on the data submitted herein, it is believed that the WSHU(AM) facility complies with applicable FCC technical requirements.

The foregoing was prepared on behalf of Sacred Heart University, Inc. by Clarence M. Beverage of *Communications Technologies*, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



Clarence M. Beverage  
*for* Communications Technologies  
Medford, New Jersey  
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