
Summary of Schedule 350 Filing

1

Call letters: W253CD.C
City of License: East Longmeadow, MA
Channel: CH253D (98.5 MHz)
File No: LMS-0000166841
Facility ID: 156452
Applicant: Saga Communications of New England, LLC

Explanation of Translator License to Cover Filing and Compliance with Special Operating Conditions or Restrictions.

1. The applicant certifies coordination with other users of the site to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

2. The applicant acknowledges this construction permit authorizes the mounting of the antenna on the non-directional tower of AM Station WLZX(AM) - East Long Meadow, MA (Frequency 1600 kHz). Following installation of the antenna, the permittee has made a tower impedance measurement and compared this against the license value. The most recently licensed non-directional tower impedance is listed at 243.7 ohms (see BZ-20171106ABV). The post-installation non-directional tower impedance (Rs) was measured to be 245.0 ohms; or a variance of only 0.53% from the licensed value. As the resistance (Rs) of the AM antenna has not changed by more than two percent (2.0%) from the licensed value (see Section 73.45(c)(1) of the Commission's Rules), an application for the AM station to return to direct power measurement is not required, with no further action required. Regarding the measurement, this reading was conducted on December 2, 2021; by Joshua Smith, chief engineer of AM Station WLZX(FM). The measurement data is as follows:

Freq = 1.600008	Equivalent Circuit:
Freq Step = 0.00020	Rs = 245.042
Zref = 50.000	Xs = 88.113
SWR = 5.559	Q = 0.4
Zmag = 260.402	Rs = 245.042
Phase = 19.778	Xs = 88.113
Rho Mag=0.6951	Q = 0.4
s11= 0.6888 + j0.0929	Ls = 8.7647 uH
% refl power = 48.3	
DC Voltage = 12.85	Rp = 276.726
Return Loss= 3.16dB	Xp = 769.572
Short/Open Circuit:	Lp = 76.5504 uH
Cable Loss= 1.58dB	Gp = 0.003614
	Bp = 0.001299

3. The applicant certifies that prior to commencing Program Test Operations, the applicant has on file an Application for an FM Translator License pursuant to 47 C.F.R. Section 74.14.