

T Z SAWYER TECHNICAL CONSULTANTS

2130 HUTCHISON GROVE COURT, SUITE 100
FALLS CHURCH, VIRGINIA 22043
TELEPHONE (703) 848-2130 / (202) 642-2130

ENGINEERING STATEMENT IN SUPPORT OF A SPECIAL TEMPORARY AUTHORITY (STA) REQUEST

WOBL RADIO, INC.
RADIO STATION WOBL (AM)
1320 KHZ, CLASS B
FCC Facility ID: 73364
OBERLIN, OHIO

JULY 2018

Engineering Statement - Narrative

WOBL requests a continuation of its current “antenna parameters” at variance authorization. WOBL has recently reviewed the field strength and operating data collected in preparation with the filing of a direct measurement of power application to return to normal service prior to the expiration of the current STA.

However, the station engineer noted on July 16 (a little over one week ago) the following items that must be corrected prior to filing the direct measurement of power application (see the below email to Crown Castle Network Operation Center):

Email from Tracey Liston - Station Engineer to Crown Castle Network Operations Center (NOC)
Subject: Maintenance needed at BU840363 ASR 1054569
From: Tracey
To: noc@crowncastle.com
Cc: tzsawyer@tzsawyer.com; dwilber@woblwdlw.com; kkoyan@ncwcom.com
Sent Monday, July 16, 2018 9:31 PM Attachments



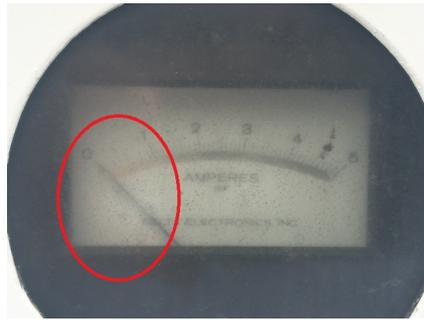
As Chief Engineer of WOBL-AM directly across the street from the above specified tower, I have discovered today at least two of the monitor points for this station are higher than FCC mandated levels. While no environmental factors have changed in the far field, an inspection of ASR 1054569 reveals a possible entanglement of a wire (or coaxial ground kit) in the NE leg's detuning skirt. Additional measurements taken at a point 90 degrees from both station and the tower show 140 mV radiating from WOBL-AM on 1320 kHz and over 320 mV re-radiating from the cell tower. Also no current is flowing in the detuning skirt. I spoke to Amy at the CC NOC earlier this evening so a ticket may have been generated, but I wanted to send this photo of the potential problem along with these details. Please copy us all on the steps CC will undertake to correct this issue.

Thank you,
Tracey Liston
WOBL-AM 1320
330 565 9207

Crown Castle has dispatched a crew to remove the shorted cable on the detuning skirt highlighted in the photo above, however that did not correct the issue completely. As noted below:

Thursday, July 26, 2018 6:01 PM
Subject Re: WOBL materials
From Tracey
To tzsawyer@tzsawyer.com
Sent Thursday, July 26, 2018 11:51 AM
Attachments

Yes, wire that was probably shorting skirt was removed. Still no current in skirt as it was always low, Bob Jr. had requested a higher resolution meter, but that never happened. We were not on site when cell tech did job and do not know what or if anything was done other than wire removal. 90 degree comparison do show significantly less RF from tower now however. Other cut coaxes are visible too.



Zero Current in detuning skirt



Visible cuts in Coax and cable grounds

Clearly, Crown Castle has some work to do on this tower before restoration is complete and the detuning skirt is functioning properly. Until that occurs WOBL cannot file its direct measurement of power application with any confidence in the data collected in the field.

Continued Relief sought:

WOBL seeks continuation of its parameters at variance STA, and expansion of the STA to including monitor points that are exhibiting localized re-radiation from this clearly malfunctioning detuning skirt on Crown Castle tower: BU840363 FCC ASR# 1054569.

No changes have occurred within the WOBL plant (antenna system). This is an external localized re-radiation event as the included documentation (photos and emails) have demonstrated that is beyond the control of WOBL Radio, Inc.

July 26, 2018
Timothy Z. Sawyer, Technical Consultant
T Z Sawyer Technical Consultants
2130 Hutchison Grove Court, Suite 100
Falls Church, Virginia 22043
Telephone: (703) 848-2130 / (202) 642-2130
e Mail to: tzsawyer@tzsawyer.com

