

TECHNICAL SUMMARY
AUXILIARY APPLICATION
FM STATION WLLZ
DETROIT, MICHIGAN
CH 294B (106.7 MHz) 37 KW (ND) 169 M

1. *Proposed Auxiliary Operation:* It is proposed to implement an auxiliary operation for WLLZ from the existing tower (ASRN 1007201) of FM station WDET-FM and diplex into the existing WDET-FM nondirectional (ND) antenna.¹ Specifically, a WLLZ auxiliary operation from the WDET-FM tower on channel 294B (106.7 MHz) at Detroit, Michigan utilizing WDET-FM's ERI model G5CPS-10AC-HW, 10-bay, half-wavelength (HW) spaced ND antenna with a maximum ERP of 37 kW (H&V) and an HAAT of 169 meters.

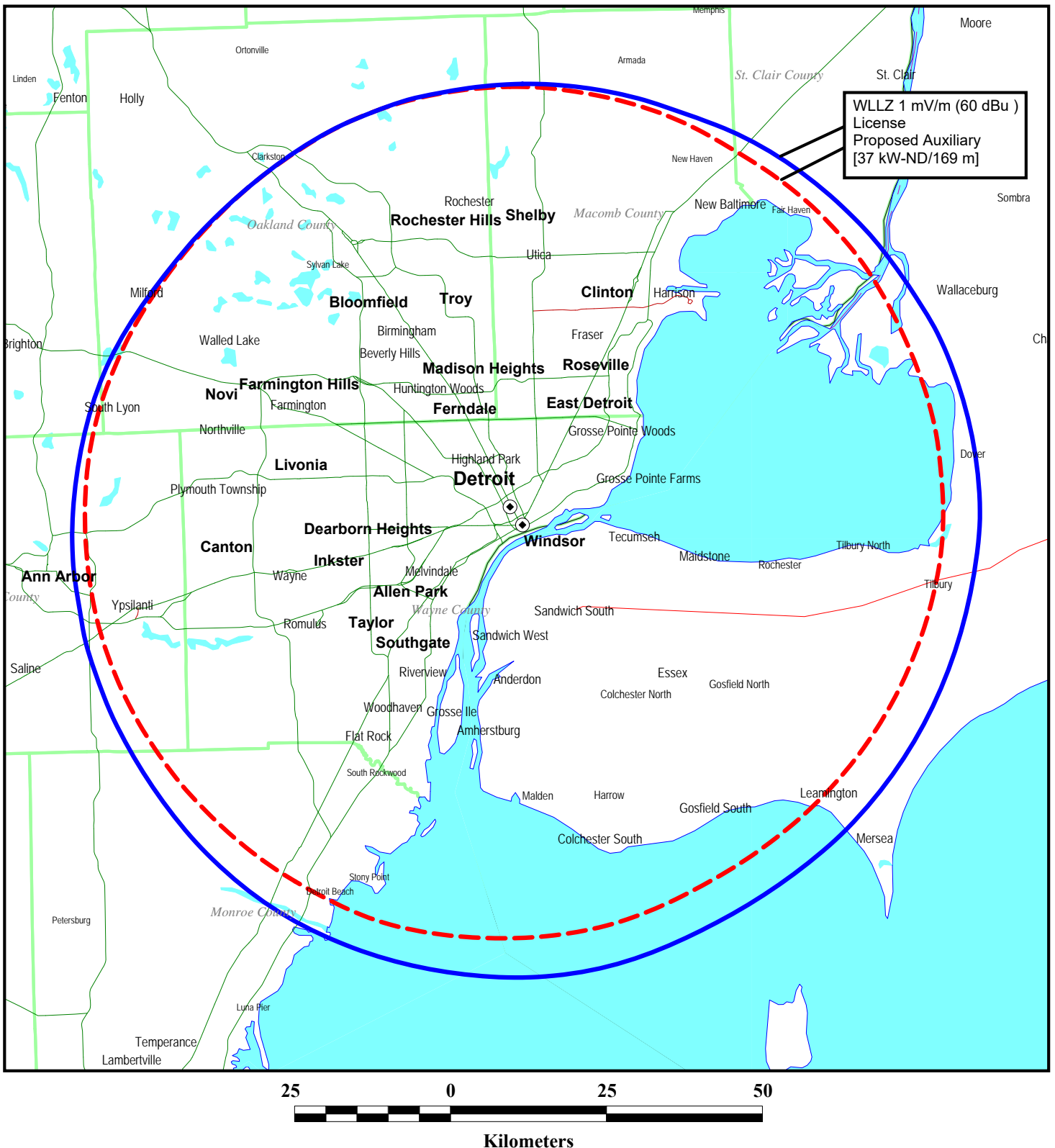
2. *Compliance with Section 73.1675(a):* Figure 1 demonstrates that the 1 mV/m contour of the WLLZ auxiliary facility is located entirely within the 1 mV/m contour of the currently licensed (BMLH-19890804KA) WLLZ main facility in accordance with Section 73.1675(a).

3. *RFR Compliance:* The proposed WLLZ facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public based on the FCC's FM Model software. As noted above, it is proposed to utilize WDET-FM's existing ERI model G5CPS-10AC-HW, 10-bay, HW ND antenna with a total ERP of 74 kW (H+V). The antenna is mounted at the 163 meter level on the existing tower. Figure 2 depicts the output of the FCC's FM Model program. As indicated, a maximum power density of 0.375 uW/cm² will occur at a point located 514 meters from the tower. This is only 0.19% of the FCC's recommended limit of 200 uW/cm² for FM frequencies for an uncontrolled environment. Thus, it is believed that the proposed WLLZ facility is in full compliance with the FCC's requirements with regard to radio frequency radiation exposure.

Access to the transmitting site will be restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol will be in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing accepted RFR protective clothing and/or RFR exposure.

¹ FM station WDET-FM is licensed (BLED-19980624KB) to operate on Ch. 270B (101.9 MHz) at Detroit, Michigan.

Figure 1



**COMPLIANCE WITH SECTION 73.1675(A)
PROPOSED AUXILIARY OPERATION**

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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2

Output of FCC’s FM Model Program:

