

**ENGINEERING STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
AUXILIARY FACILITY
RADIO ONE LICENSES, LLC
FM STATION WKYS
WASHINGTON, DC
FACILITY ID 73200**

This engineering statement is prepared by Radio One Licenses LLC, licensee of FM broadcast station WKYS, Washington, DC. WKYS operates from its licensed facility, file number BMLH-20080505ACH, on channel 230 with an effective radiated power (ERP) of 24.5 Kilowatts, antenna height above average terrain (HAAT) of 215 meters at a location described by Antenna Structure Registration (ASR) number 1036610.

Proposed facility:

It is proposed to construct an auxiliary facility for WKYS at an existing tower located approximately 20 meters from the licensed site (tower ASR 1036610). This tower is shorter than tower ASR 1036610 and is considered shielded and is not painted or lighted. The proposed auxiliary facility is a three bay, full wave spaced antenna with center of radiation 97 meters above ground level, 215 meters above sea level with an ERP of 25 Kilowatts. HAAT is 151 meters as determined by the FCC website HAAT calculator using 12 evenly spaced radials.

Interference:

In compliance with Section 73.1675 the proposed auxiliary facility 60 dBu contour does not extend beyond the licensed 60 dBu contour as shown in Figure 1. Coverage contours were calculated and plotted using 360 evenly spaced radials with a 3 second terrain data base. Existing filtering apparatus will be used as necessary to prevent creation of spurious emissions.

Radiofrequency safety and environmental:

The proposed facility will not have significant environmental impact, as defined in Section 1.1307(b). The existing tower is part of an established, historic transmission facility that has been in continuous use for over fifty years.

Using the FCC FM Model program, it was determined the proposed operation is in compliance with radio frequency (RF) exposure limits set forth in Section 1.1310. The maximum predicted RF power density 2 meters above ground level is 25.028 $\mu\text{w}/\text{cm}^2$, which is less than thirteen percent of the limit value for general population/uncontrolled exposure.

Areas of occupational/controlled RF exposure risk from the proposed antenna are located on the tower. Access to the tower is restricted from public access and warning signs are posted. Workers on the tower are aware of and can exercise control over their exposure. RF power will be reduced or turned off as necessary to protect persons having access to the site, tower or antenna from RF fields in excess of FCC guidelines.



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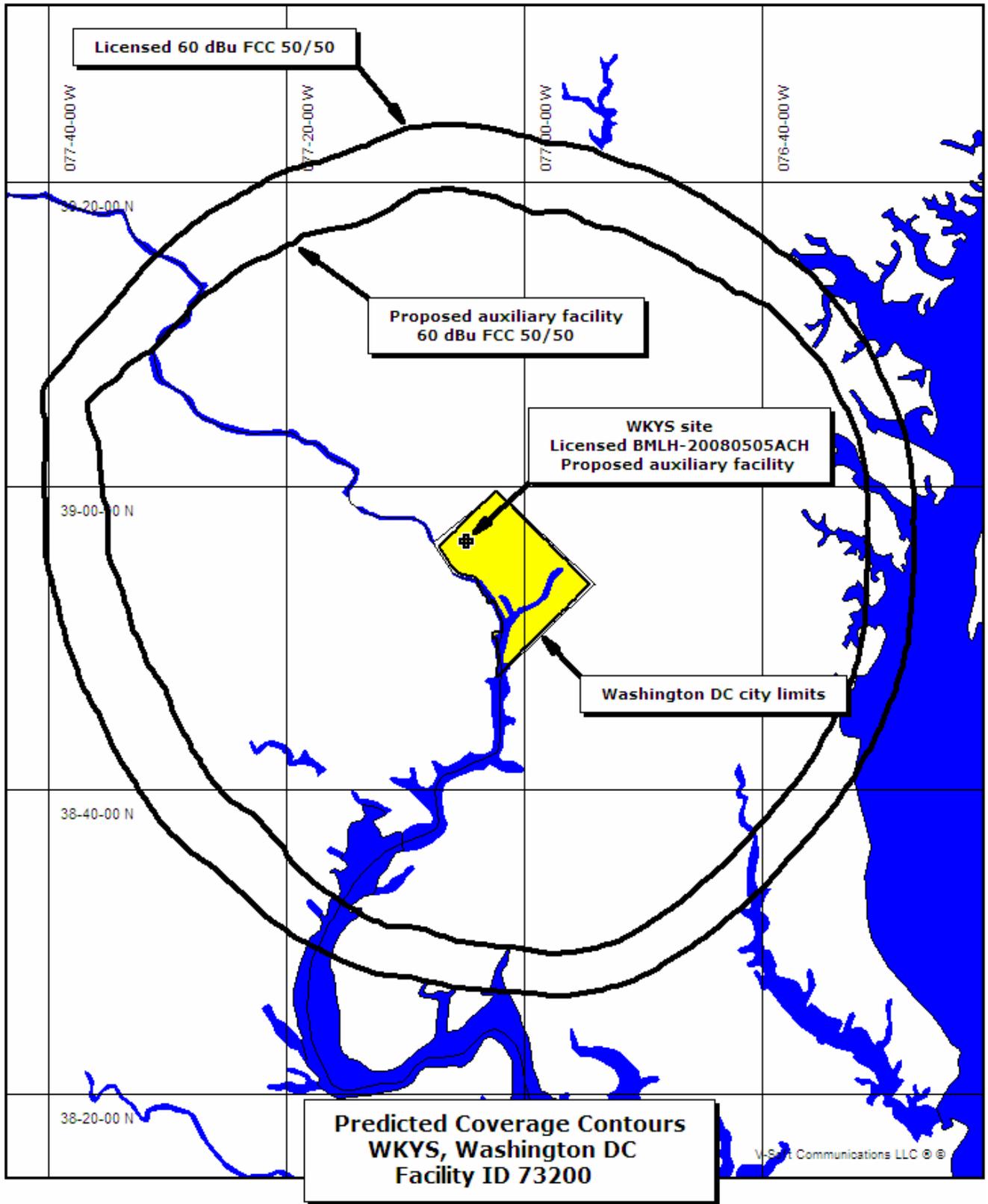
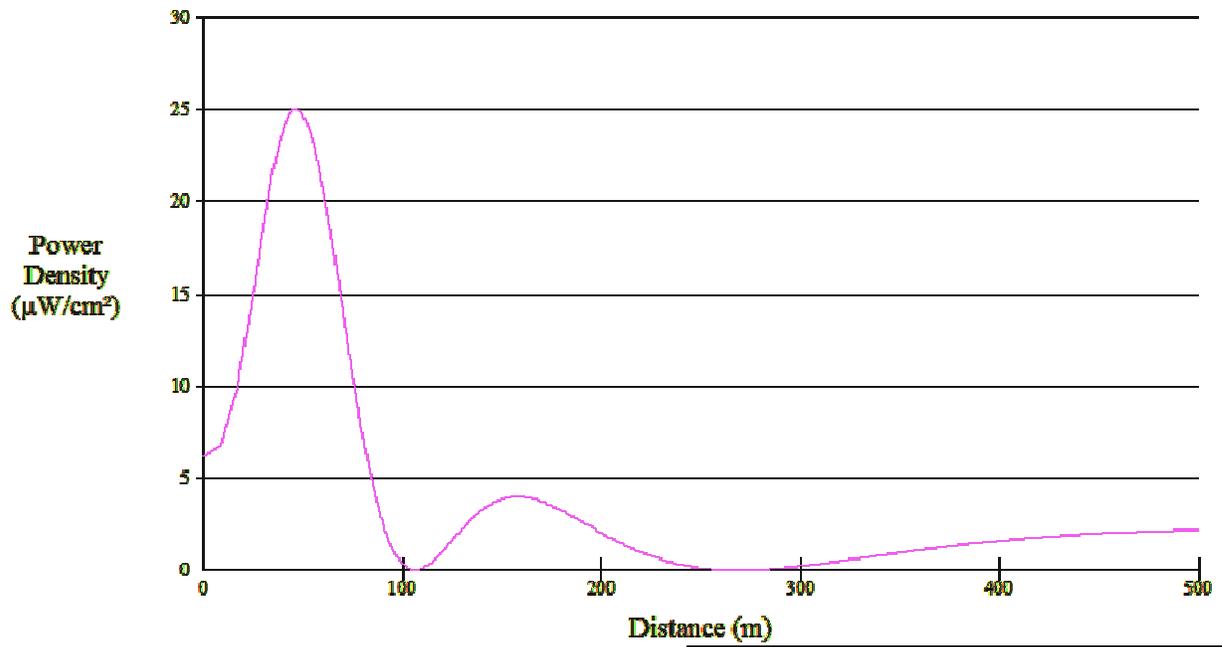


Figure 1
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Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="500"/>	Antenna Type:	<input type="text" value="Dielectric DCRM"/>
Horizontal ERP (W):	<input type="text" value="25000"/>	Number of Elements:	<input type="text" value="3"/>
Vertical ERP (W):	<input type="text" value="25000"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="97"/>		

Maximum Value of Graph.

The Max Power Density was found to be 25,0282342682728 $\mu\text{W}/\text{cm}^2$ at 46 meters.

Note: Graph resolution is 500 points.

Figure 2
FM Model Program