

TECHNICAL EXHIBIT
LONG FORM APPLICATION FOR
STATION WBQC-CA (FACILITY ID 168414)
CINCINNATI, OHIO
CH 20 15 KW (MAX-DA)

Technical Narrative

The technical exhibit of which this narrative is part was prepared in response to the FCC's letter dated March 21, 2007, concerning the settlement agreement for MX Group 173. Specifically, this technical exhibit was prepared in support of a complete FCC Form 346 as required by the letter for WBQC-CA's proposed digital companion channel operation on channel 20 at Cincinnati, Ohio (FCC File No. BSFDTL-20060630CLL).

It is noted that the station KAET (BSFDTL-20060630BFA) is required by the Commission's March 21 letter to amend its application to resolve the mutual exclusivity with WBQC-CA. Thus, any excessive OET-69 interference with regards to the non-amended KAET application should not be considered.

Proposed Facilities

It is proposed to operate on digital channel 20 using a Scala SL-8 "omnioid" directional antenna system (rotation = 0) from the licensed transmitter site (39-07-30 N, 84-29-56 W). The maximum ERP will be 15 kW and the antenna radiation center height above mean sea level will be 464 meters. The transmitter will employ a "stringent" out-of-channel emission mask to control adjacent channel interference. The FCC antenna structure registration number is 1013618.

Figure 1 is a map showing the authorized and proposed coverage contours. As can be seen on the map, there is common area where both contours overlap.

Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. Using the procedures outlined in the FCC's OET-69 Bulletin, a 1 kilometer grid and 1990 U.S. Census, the proposal complies with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent assignments). If necessary, a waiver of the FCC rules is respectfully requested based on use of the procedures outlined in the FCC's OET-69 Bulletin.

The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

Radiofrequency Electromagnetic Field Exposure

The proposed WBQC-CA facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed antenna is located 207 meters above ground level. Based on a conservative downward relative field of 1.0, the calculated power density at a point 2 meters (6.6 feet) above ground level will not exceed 0.012 mW/cm^2 , which is less than 5% of the FCC's recommended limit of 0.34 mW/cm^2 for channel 20 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. As this is a multi-user site and agreement between the stations will control access. In the event that workers or other authorized personnel enter restricted areas or climb the tower, 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 monitors or scheduling work when the stations are at reduced power or shut down.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

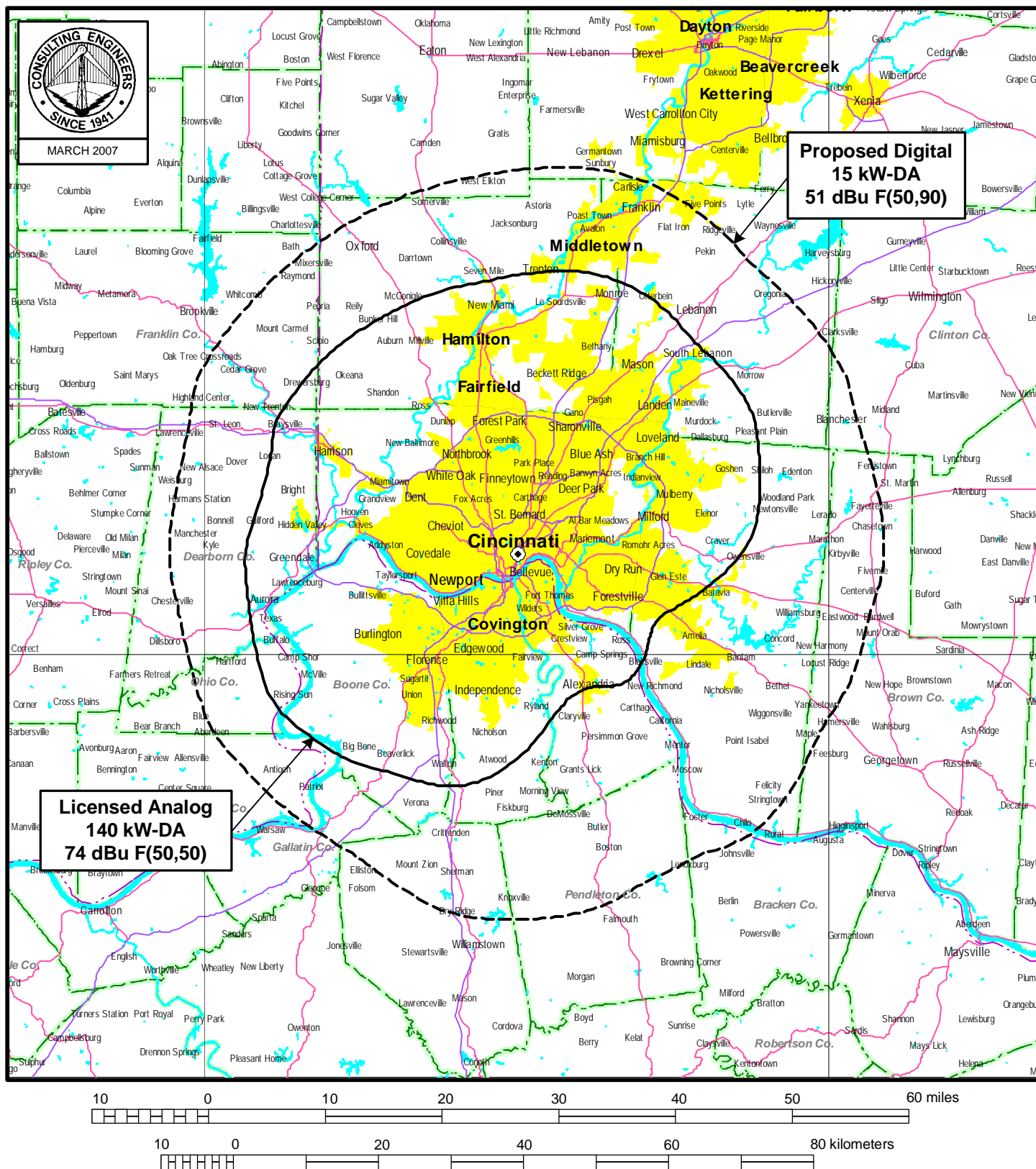


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Figure 1



PREDICTED COVERAGE CONTOURS

STATION WBQC-CA

CINCINNATI, OHIO

CH 20 15 KW (MAX-DA)

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