

TECHNICAL EXHIBIT  
DIGITAL FLASH-CUT APPLICATION FOR  
LPTV STATION WLQP-LP (FACILITY ID 21476)  
LIMA, OHIO  
CH 18 15 KW-DA

Technical Narrative

This Technical Exhibit supports a flash-cut digital television (DTV) application for low power television (LPTV) station WLQP-LP at Lima, Ohio (Facility ID 21476). Station WLQP-LP is licensed (BLTTL-19990407JA) to operate on analog channel 18(0) with a directional antenna (DA) system. The maximum visual effective radiated power (ERP) is 7.7 kilowatts (kW). The antenna radiation center height above mean sea level (RCAMSL) is 453 meters. The FCC antenna structure registration number is 10012273 and the site coordinates are 40-38-03, 84-12-29 (NAD-27).

Proposed Facilities

This application proposes digital operation on the current channel (18) on a new tower located at coordinates 40-44-02, 84-06-07 (NAD-27). The Federal Aviation Administration (FAA) is being notified of the proposed structure. An ERI model ALP16L2-HSWR-18 directional antenna system will be used with the major lobe oriented toward 5 degrees True. The antenna center of radiation will be 117.4 meters above ground level (AGL), and 378.3 meters AMSL. The proposed maximum DTV ERP is 15 kW.

Figure 1 is a map showing the licensed 74 dBu (analog) and proposed 51 dBu (digital) 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 TV/DTV assignments, less than 2% to LPTV assignments), except with respect to commonly owned station WOHL-CA (Ch.25, Lima, OH) where an agreement obtains. Station WOHL-CA consents to the interference received from the proposed WLQP-LP DTV operation. 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 recognizes the proposal is secondary to authorized full-service analog and DTV operations. The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

The WLQP-LP site is 151 kilometers from the closest point of the US-Canada border. Figure 2 is a map showing the predicted co-channel analog (NTSC) and DTV interfering contours for the proposed WLQP-LP operation. The predicted 30.2 dBu F(50,10) contour is for interference to co-channel Canadian analog allotments. The predicted 76 dBu F(50,10) contour is for interference to lower 1<sup>st</sup> adjacent channel Canadian analog allotments. There are no other known Canadian analog or DTV allotments of concern. As shown, the predicted interfering contours do not overlap Canadian allotments in Canada land area.

Radiofrequency Electromagnetic Field Exposure

The proposed WLQP-LP 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 antenna is located 117.4 meters above ground level. The proposed maximum ERP is 15 kW. Based on a downward relative field of 0.3, the calculated power density at a point 2 meters (6.6 feet) above ground level will not exceed 2% of the FCC's recommended limit of 0.33 mW/cm<sup>2</sup> for channel 18 for an "uncontrolled" environment.

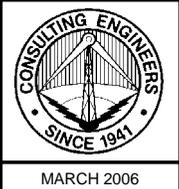
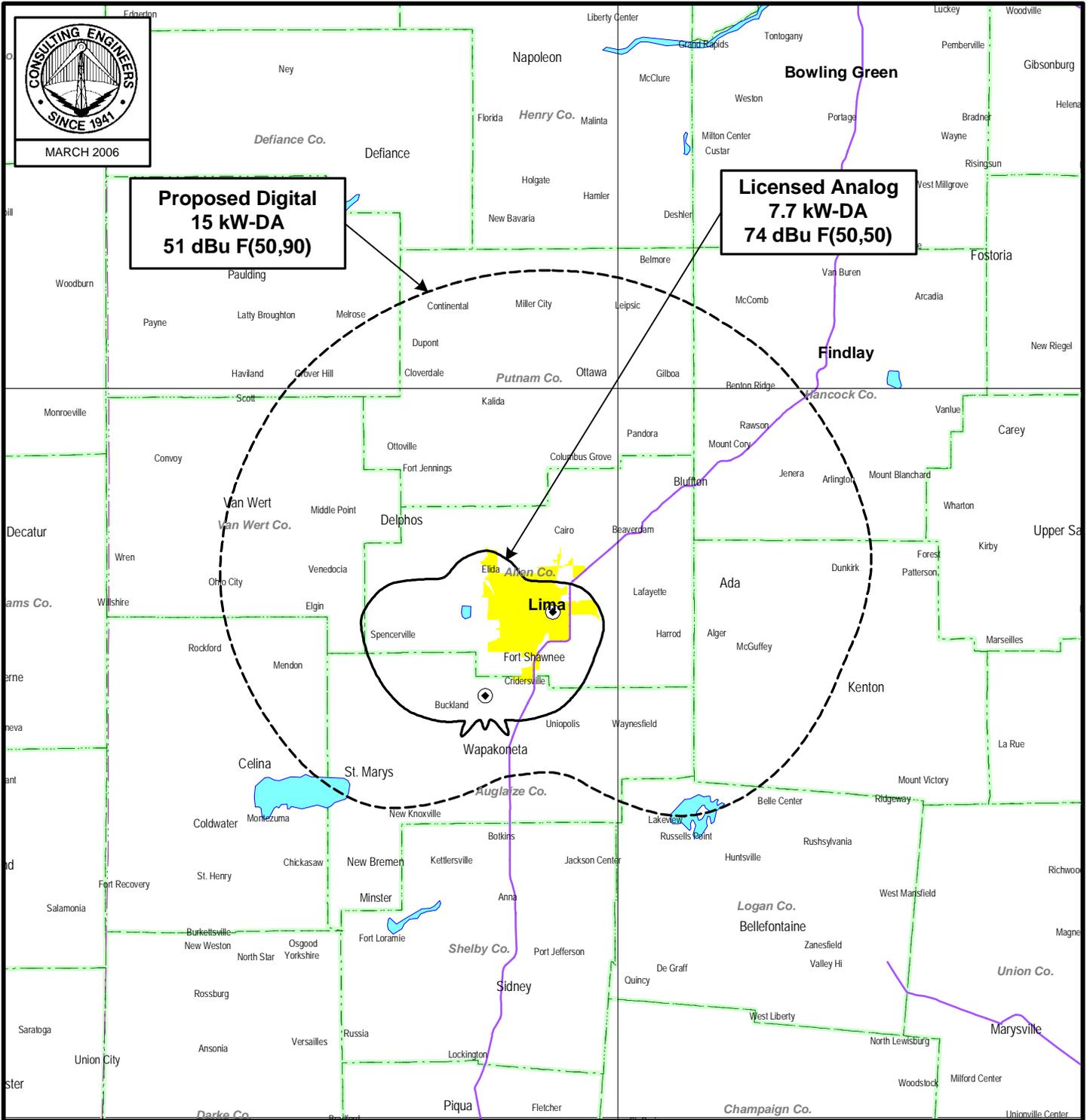
Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. 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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March 29, 2006

Figure 1



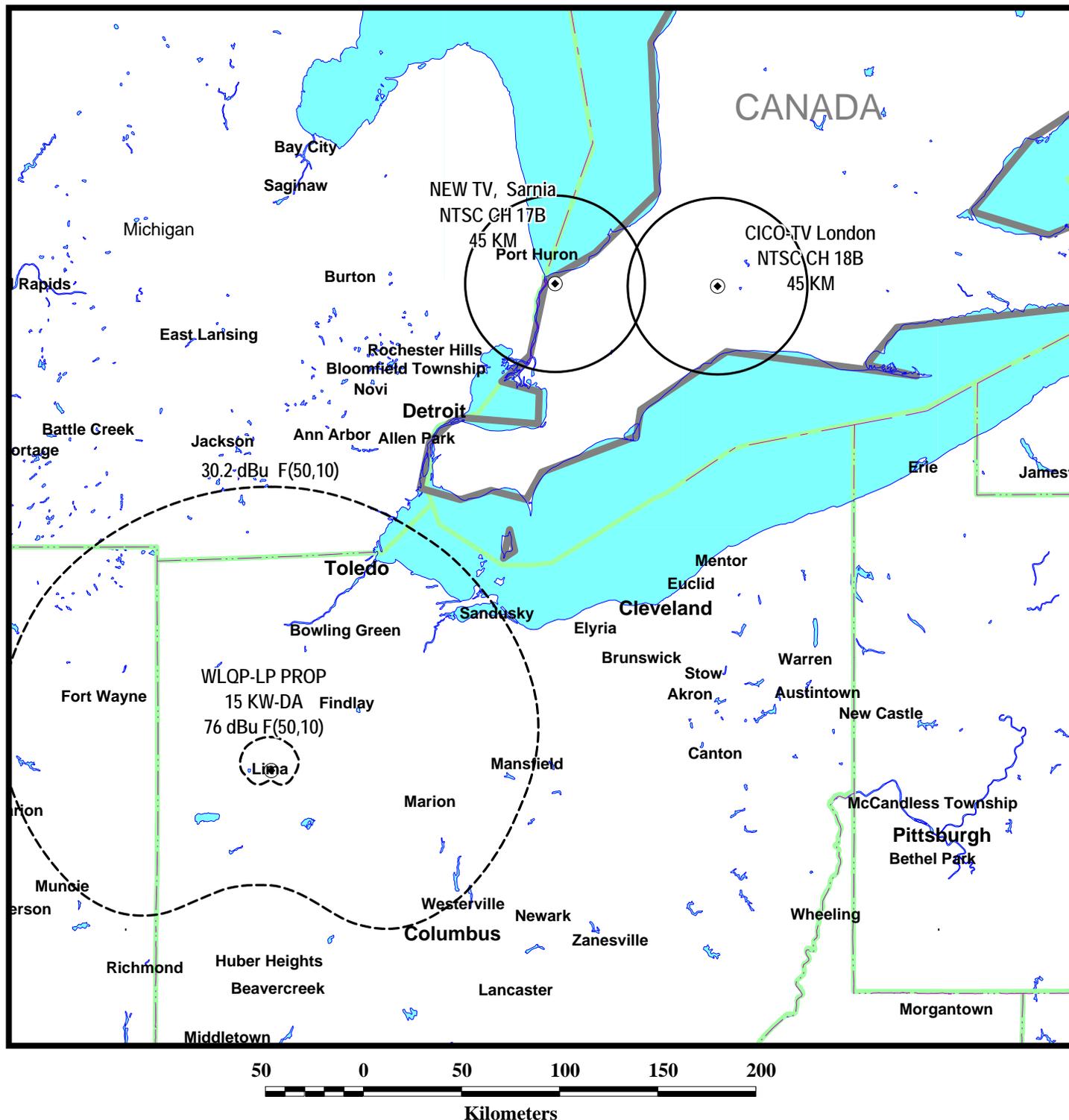
**Proposed Digital  
15 kW-DA  
51 dBu F(50,90)**

**Licensed Analog  
7.7 kW-DA  
74 dBu F(50,50)**



**PREDICTED COVERAGE CONTOURS**  
**STATION WLQP-LP**  
**LIMA, OHIO**

du Treil, Lundin & Rackley, Inc Sarasota, Florida



## CANADA ALLOCATION MAP

STATION WLQP-LP  
LIMA, OHIO

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