

TECHNICAL EXHIBIT
DIGITAL FLASH-CUT APPLICATION FOR
CLASS A TV STATION WXCW-CA (FACILITY ID 2650)
SPRINGFIELD, MASSACHUSETTS
CH 28 0.024 KW (MAX-DA)

Technical Narrative

This Technical Exhibit supports a flash-cut application for Class A television station WXCW-CA. Station WXCW-CA is licensed to operate on analog channel 11 with a directional antenna maximum (visual) effective radiated power (ERP) of 0.083 kW and an antenna height above mean sea level (RCAMSL) of 300 meters (BLTVL-19910219JK). Station WXCW-CA is authorized to operate on analog channel 28 with a directional antenna maximum (visual) ERP of 5 kW and an RCAMSL of 361 meters (BPTTA-20050609AAB).

Proposed Facilities

This application proposes digital operation on the currently authorized channel (28), at the authorized transmitter site, antenna height and antenna system. The transmitter site coordinates remain (NAD27): 42-15-05 N, 72-38-43 W. A Dielectric (DIE) TLP-8E, with a maximum ERP of 0.024 kW and antenna RCAMSL of 361 meters is proposed.

The existing 23 meter structure (75 feet) does not require registration as the FCC's TOWAIR program indicates there are no airports within 8 kilometers (5 miles).

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. In addition, since WXCW-CA is a Class A station, the proposed DC contour is completely within the analog contour, complying with the current FCC Freeze.

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 WXCW-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 antenna is located 14 meters above ground level. The proposed ERP is 0.024 kW. Based on a conservative downward relative field of 0.5, the calculated power density at a point 2 meters (6.6 feet) above ground level will not exceed 0.0014 mW/cm^2 , which is less than 5% of the FCC's recommended limit of 0.37 mW/cm^2 for channel 28 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.

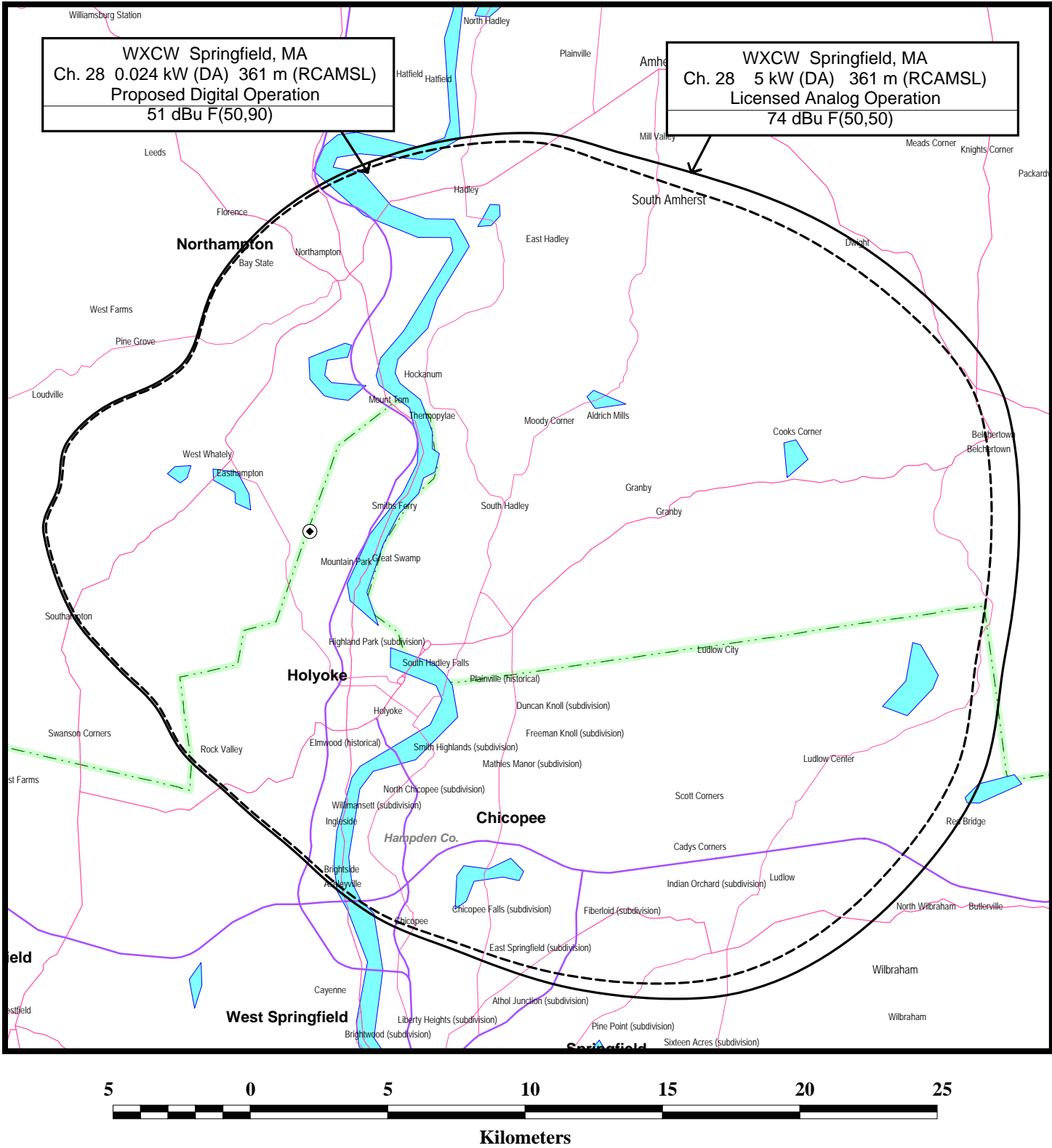


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Figure 1



FCC PREDICTED COVERAGE CONTOURS

CLASS A STATION WXCW
SPRINGFIELD, MASSACHUSETTS
CH 28 0.024 KW (DA) 361 M (RCAMSL)

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