

TECHNICAL EXHIBIT
MINOR MODIFICATION APPLICATION
FOR STATION W38DL (FACILITY ID 73358)
ADAMS, MASSACHUSETTS
CH 38 3 KW (MAX-DA)

Technical Narrative

This Technical Exhibit supports a minor modification application for TV translator station W38DL at Adams, Massachusetts. Station W38DL is authorized to operate on digital channel 38 (BDFCDTT-20080619AFG). A directional antenna system is employed with a maximum effective radiated power (ERP) of 0.91 kilowatts (kW). The antenna radiation center height (RCAMSL) is 1105 meters above mean sea level (AMSL). The site coordinates are 42-38-14 N, 73-10-08 W (NAD-27). The antenna structure registration number is 1035419.

Proposed Facilities

This application proposes to increase ERP and re-orient the directional antenna. An Andrew (AND), model ALP4L1-HSM directional antenna will be oriented at 45° True (see Figure 1). The proposed, digital ERP will be increased to 3 kW and the antenna RCAMSL will remain 1105 meters.

Figure 2 is a map showing the authorized and proposed 51 dBu (digital) coverage contours. As can be seen on the map, there is common area where both contours overlap.

Allocation Considerations – *Post-Transition*

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 standard 1 kilometer grid and 1 kilometer terrain distance increment, and 2000 U.S. Census, the proposal complies with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent assignments).

The applicant recognizes the proposal is secondary to other 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.

Radiofrequency Electromagnetic Field Exposure

The proposed W38DL digital 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 57 meters above ground level. The proposed ERP is 3 kW. Based on a downward relative field of 0.28 (see Figure 3), the calculated power density at a point 2 meters (6.6 feet) above ground level will not exceed 0.0026 mW/cm^2 , or 0.6% of the FCC's recommended limit of 0.41 mW/cm^2 for channel 38 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 station is 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.



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AZIMUTH PATTERN**Type:****ALP-M****Channel:****38****Directivity:****Numeric****dBd****2.54****4.05****Peak(s) at:****Location:****Polarization:****Horizontal**

Note: Pattern shape and directivity may vary with channel and mouting configuration.

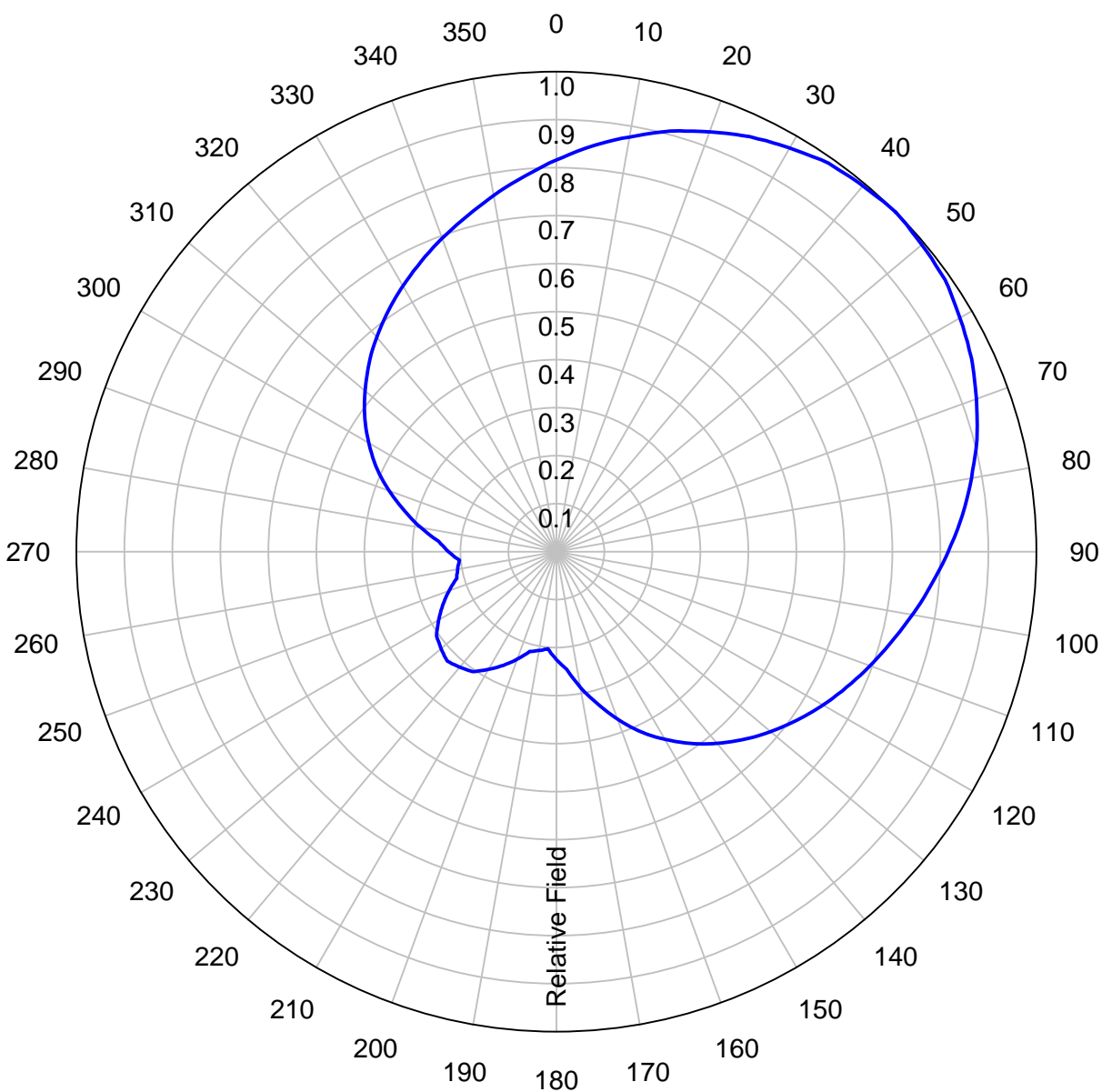
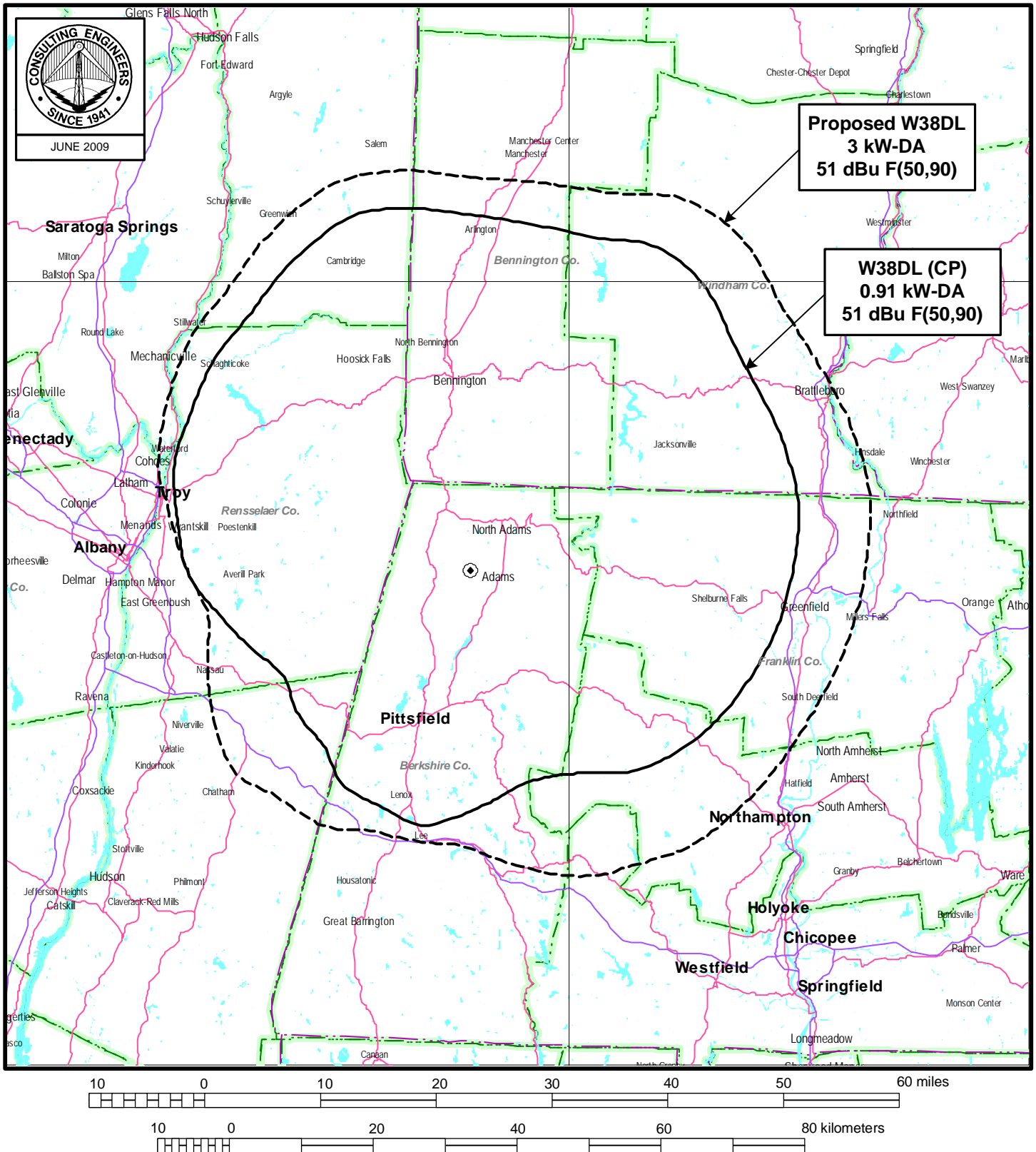


Figure 2



PREDICTED COVERAGE CONTOURS

STATION W38DL

ADAMS, MASSACHUSETTS

CH 38 3 kW (MAX-DA)

du Treil, Lundin & Rackley, Inc Sarasota, Florida

ELEVATION PATTERN

Type:	ALP4L1		Channel:	38
Directivity:	Numeric	dBd	Location:	
Main Lobe:	4.58	6.61	Beam Tilt:	0.00
Horizontal:	4.58	6.61	Polarization:	Horizontal

Relative Field

