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B. W. St. Clair, Inc.

Engineering Statement
in support of a
Displacement Application for W30AJ
Channel 30, Syracuse, NY
John Mester Income Family Trust

BACKGROUND

The applicant's LPTV station, W30AJ, proposes to operate in the digital mode. However, WUTR-DT in Utica, NY is only 80 km away. This is well within the 265 km separation distance the FCC rules allow for displacement. This application requests a displacement to channel 42. However, it is necessary to protect the adjacent channel TV station, WPBS-DT41 in Watertown, NY. The stringent mask for LPTV and translator stations has the required attenuation for this application when used in conjunction with an "A" pattern antenna. This new antenna pattern fits completely within the contour approved by Canada.

Since this application was filed and approved by the Canadian version of the FCC, two applicants have filed for channels 42 in Utica and 43 in Syracuse. This application holds precedence over those applications filed in July and August of 2010. The file numbers are: BDISDTL20100727ACV and BDISDTL20100825AAM.

INTERFERENCE CONSIDERATIONS

Interference to other TV stations was studied using "Population Loss Studies" based on the "Longley-Rice Terrain Dependent Algorithm" in accordance with OET Bulletin 69 as described above.¹ Population loss for full service TV and Class A or analog stations is less than 0.5% and less than 2% for any LPTV or translator DTV station. Cell size for service analysis is 1.0 km/side and distance increments for Longley-Rice Analysis is 1.0 km

FULL SERVICE TV, DTV, LPTV AND CLASS A STATIONS
None

¹ The analysis was performed on a Sun "Blade" Computer using the exact replica of the FCC program. Population losses of less than 0.5% are not reported in detail. Only an indication of no interference is shown.

SPACING FROM AM STATIONS

This LPTV station is spaced 1.57 km from WOLF (AM) and 1.58 km from WVOA (AM). However, this application is for a channel change and power increase only. The antenna change does not include any structural or transmission line change and is identical to the present antenna. Therefore, the interaction with the two AM radio stations will not change. Accordingly, it is requested that the CP not contain a condition requiring AM station measurements.

Prepared By:

A handwritten signature in blue ink that reads "Gordon H. Allison".

Gordon H. Allison, Jr.
Engineering Consultant
27 August 2010