

ENGINEERING REPORT

Displacement for LPTV Station
Application for

W23EB-D – Cadillac, MI
License Number – BLDTL-20140317ABS
(Facility ID Number: 184126)

May, 2018

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Discussion of Engineering Report

This firm was retained to prepare the required engineering report in support of this special displacement window application for W23EB-D, Cadillac, MI BLDTL-20140317ABS (Facility ID: 184126). W23EB-D is eligible for displacement due to the received interference from the authorized operation of one or more full power stations. Currently W23EB-D, is authorized to operate on Channel 23 with an ERP of 14.43 kW at 541.8 meters AMSL utilizing a non-directional antenna. Proposed operation is requested on Channel 22 with the same ERP at the same AMSL, and utilizing the same antenna make and model.

This application will be filed with a contingency waiver based on the expected vacating of Channel 21 by WCMW - Manistee, MI, BLEDT-20090612ABH (Facility ID: 9913).

Additional engineering exhibits are attached to this application:

- ***“W23EB-D Proposed Interference Study”***. This exhibit demonstrates that the proposed facility will not cause Prohibited Interference to stations affected by this proposal once WCMW transitions to the channel assigned to it in the incentive auction repack. The proposed facility will receive interference and applicant agrees to accept this interference. The details of the study parameters are included in this exhibit and show a Study Cell Size of 1.0 km and a Profile Point Spacing of 1.0 km.
- ***“W23EB-D Present Interference Study”***. This exhibit demonstrates that the existing facility will receive interference in excess of 2% from one or more stations and therefore is eligible to file this displacement application.
- ***“5% Exclusion RFR Study based on Eq10”***. The Radio Frequency exposure has been evaluated at the proposed power level to demonstrate compliance.