

ENGINEERING REPORT

Minor Change in Construction Permit
Application for a Educational Digital
TV Station

WCMV(DT) – Cadillac, MI
License Number – BLEDT-20050914AAI
(Facility ID Number: 9922)
Construction Permit - 0000027435

Power Increase

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Discussion of Engineering Report

This firm was retained to prepare the required engineering report in support of this Minor Construction Permit Application for Education Digital TV station WCMV(DT), Cadillac, MI, License Number BLEDT-20050914AAI (Facility ID: 9922). Currently WCMV(DT) is authorized to operate on Channel 34 with 493 kW horizontal only polarization at 744 meters AMSL utilizing a directional antenna. Proposed operation is at 576 kW horizontal only polarization at the same AMSL, same channel, and utilizing the same antenna.

This station Post Repack qualifies under FCC Public Notice DA 17-643 dated July 3, 2017. WCMV(DT) is predicted to experience a loss of population served in excess of one percent as a result of the repacking process. Specifically the Post-Auction Interference Free population is 400,367 and the Pre-Auction Interference Free population is 407,228 or a loss of 1.68%.

Additional engineering exhibits are attached to this application:

- ***“WCMV Interference Free Power Increase Study”***. This exhibit demonstrates that the proposed allocation will not cause interference to stations affected by this proposal.
- ***“WCMV Contour Comparison”***. The reports from this study result in a predicted population at the proposed power level to be 423,261.
- ***“5% Exclusion RFR Study based on Eq10”***. The Radio Frequency interference has been evaluated at the proposed power level to demonstrate compliance.
- ***“WCMV Patterns”***.