

ENGINEERING REPORT

MINOR CHANGE APPLICATION

**Daytime Non-Directional
Power Increase**

**WMKT(AM) – Charlevoix, MI
1270 kHz**

October, 2004

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DISCUSSION

This firm was retained to prepare this engineering report in support of a minor change application for the facilities of AM broadcast station WMKT, 1270 kHz, Charlevoix, MI. Currently WMKT holds a license for 5.0 kW of daytime non-directional power and 5.0 kW of nighttime directional power employing a three tower array. This application seeks to increase daytime non-directional power to 27.0 kW through the use of supplemental measured conductivity information. The data and exhibit numbering contained herein are responsive to Section III-A of FCC Form 301.

Broadcast Facility. The broadcast facility remains in compliance with all applicable rules contained in *C.F.R. Chapter 47, Part 73, Subpart A*. The existing WMKT daytime antenna system will consist a single non-directional tower. Details of the existing antenna system are located in **Exhibit(s) 11.1-5**. A map depicting the present 0.5 mV/m, 2.0 mV/m, and 5.0 mV/m daytime service contours for WMKT has been included as **Exhibit 11.6(a)**. A map depicting the proposed daytime service contours from the site has been included as **Exhibit 11.6(b)**. Present and proposed 1.0 V/m "Blanket" Contours have been included as **Exhibit 11.7**. All maps reflect measured conductivity information as included in **Exhibit 15**. The nighttime antenna array will remain unchanged.

Community Coverage. Community coverage remains in compliance with the requirements of §73.24(i). Charlevoix, MI will continue to receive primary service as seen in **Exhibit(s) 11.6(b)**. Nighttime city coverage will remain unchanged.

Main Studio Location. The main studio location remains in compliance with the requirements of §73.1125. Studios for WMKT will remain unchanged from the present facilities.

Groundwave Interference. The proposed allocation remains in compliance with the requirements of §73.37. **Exhibit(s) 15.1-2** are relevant allocation studies for the proposed operation. **Exhibit 15.3** is an expanded view map of the proposed contour overlap with WNAM.C, Neenah-Menasha, WI. Inspection of the map will show the proposed contour overlap will fall over water or the uninhabited South Manitou Island for which a similar waiver was granted in the WNAM.C Construction Permit application. Measurement information on stations WMKT, Charlevoix, MI has been included in **Exhibit(s) 15.4**.

Skywave Interference. No changes in nighttime operation is requested in this application.

Critical Hours Interference. No Critical Hours operation is required for this frequency.

Environmental Protection Act. The proposed operation is in compliance with OET Bulletin No. 65. Full protection is afforded by the proposal. An RF Radiation study has been included in **Exhibit 18**.