

MINOR MODIFICATION TO LICENSED FACILITY

WTHE 1530 KILOHERTZ

MINEOLA, NEW YORK

CANTICO NUEVO MINISTRY, INC.

APRIL 4,2020

The engineering exhibit of which this statement is part was prepared on behalf of Cantico Nuevo Ministry, Inc., hereinafter referred to as "CNMI", in support of an application for construction permit for AM station WTHE Mineola, New York. CNMI is the licensee of WTHE. WTHE is licensed to operate daytime only on a frequency of 1520 kilohertz employing a non-directional antenna system. Power is 1 kilowatt during the daytime hours and .278 kilowatts during the critical hours. The purpose of this application is to request a change in Frequency to 1530 KHZ., Power to 10 KW., and Critical hours to .500 KW. CNMI will continue to use same transmitter site and duplex with AM station WHLI Hempstead, New York. No other changes are proposed.

You will see from the exhibits attached that this proposal meets all FCC rules for co-channel map study, first adjacent second adjacent and third adjacent and critical hours study. The city of license coverage map 5.0 mV/m attached shows 100% coverage during the daytime and 95% coverage during critical hours.

The following proposed WTHE operation is compliant with section 73.24 (i) the proposed station meets the daytime 5 mV/m contour by encompassing the entire principal community to be served. That for this frequency of 1530 kHz 80% of the principal community is encompassed.

All distance to contour calculations used in plotting the various allocation maps were based on M-3 soil conductivity data except measured field data from two radials was employed to better define the city of licensed coverage. One radial was extracted from the last complete WHLI proof of performance, file number BL 7528 dated March 15, 1958, and the other was new measurement data. Table 2 is a tabulation of the new measurement data. See graph of the data and graph of the reference curves used in the conductivity analysis.

M. Celenza Communications, Inc.

The summary of the measured conductivity data is as follows:

340° 2 - 2.46, 5 - 7.48

350° 3 - 34.7