

**ENGINEERING STATEMENT
NEW WORLD COMMUNICATIONS OF DETROIT, INC.
TELEVISION STATION WJBK, DETROIT, MI
FCC FILE NUMBER BLCDT-20090813ABG
APPLICATION TO SIMULCAST ATSC 3.0 USING A HOST STATION**

This statement supports an application by New World Communications of Detroit, Inc., licensee of full power digital television station WJBK, to transmit an ATSC 3.0 "Next generation" TV signal on an operating ATSC 3.0 host station, WMYD.

The Commission has adopted rules to allow current ATSC 1.0 stations to transition to the Next Generation television standard of ATSC 3.0.¹ The purpose of this statement is to show that WJBK will be in compliance with the coverage requirements stated in the rules.

WJBK is not proposing to make any changes that would affect coverage of its current ATSC 1.0 station that transmits on VHF Channel 7. WJBK is proposing to simulcast its ATSC 1.0 stream in an ATSC 3.0 format on full-power television station WMYD which operates on RF channel 31 and will serve as the ATSC 3.0 host station.

WJBK is licensed to serve Detroit, MI, and is within the Detroit Designated Market Area ("DMA"). WMYD is also licensed to the city of Detroit, MI, and is inside the Detroit DMA. Attached as Figure 1 to this statement is a map showing the noise limited contour of WJBK's ATSC 1.0 facility and the noise limited contour of WMYD, the ATSC 3.0 simulcast host station for WJBK.

The cyan shaded area of the map shows the Detroit DMA. The map clearly shows both stations being within the Detroit DMA and, therefore, satisfies the ATSC 3.0 coverage requirement for WJBK.²

Considering the above, WJBK will be in full compliance concerning the coverage requirements as stated in the Rules.

¹ See 47 C.F.R. § 73.3801

² See 47 C.F.R. § 73.3801(d)

Figure 1
Coverage Comparison for WJBK ATSC 1.0 and ATSC 3.0 Transmissions
ATSC 1.0: RF Ch 7, 27.2 kW, Directional, 314 m HAAT
ATSC 3.0 (Hosted by WMYD): Ch 31, 935 kW, Directional, 324 m HAAT
Detroit, MI, DMA shown in Cyan

