

**ENGINEERING STATEMENT
MULTIMEDIA HOLDINGS CORPORATION
TELEVISION STATION KPNX, MESA, AZ
FILE NUMBER BLCDT-20090618AAM
REQUEST TO SIMULCAST ON ATSC 3.0 (NEXT GEN TV)**

This statement supports an application by Multimedia Holdings Corporation, licensee of digital television station KPNX, to transmit an ATSC 3.0 ("3.0") "Next generation" TV signal on a currently operating 3.0 "Lighthouse" station.

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 KPNX will be in compliance with the coverage requirements stated in the rules.

KPNX is not proposing to make any changes that would affect coverage of its current ATSC 1.0 station that transmits on VHF Channel 12. KPNX is proposing to simulcast its ATSC 1.0 stream in ATSC 3.0 format on Class A television station KFPH-CD which operates on channel 35 as an ATSC 3.0 Lighthouse station and will serve as the host.

KPNX is licensed to serve Mesa, AZ. The city of Mesa is within the Phoenix (Prescott) Designated Market Area ("DMA"). KFPH-CD is licensed to the city of Phoenix, AZ and also inside the Phoenix (Prescott) DMA. The city of Mesa is also inside the noise-limited contour of KFPH-CD. Attached as Figure 1 to this statement is a map showing the noise limited contour (36 dBu) of KPNX's ATSC 1.0 facility and the protected contour (50.8 dBu) of KFPH-CD, which would be the ATSC 3.0 simulcast host station for KPNX.

The cyan shaded area of the map shows the Phoenix (Prescott) DMA. The map clearly shows both stations being within the DMA and, therefore, satisfies the ATSC 3.0 coverage requirement for KPNX.²

Considering the above, KPNX 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 KPNX ATSC 1.0 and ATSC 3.0 Transmissions
ATSC 1.0: Ch 12, 39 kW, Non-Directional, 555 m HAAT
ATSC 3.0: Ch 35, 15 kW, Directional, 502 m HAAT
Phoenix (Prescott) DMA shown in Cyan

