

**ENGINEERING STATEMENT
NEXSTAR BROADCASTING, INC.
TELEVISION STATION KASW, PHOENIX, AZ
FILE NUMBER BLCDDT-20060630ABU
APPLICATION TO OPERATE AN ATSC 3.0 NEXT GEN TV STATION**

This statement supports an application by Nexstar Broadcasting, Inc., licensee of digital television station KASW, to construct an ATSC 3.0 ("3.0") Next Gen TV station.

The purpose of this statement is to demonstrate compliance with the rules concerning the coverage requirements of its ATSC 1.0 ("1.0") signal when it converts its current transmission facility to ATSC 3.0.

KASW proposes to partner with television station KSAZ-TV to host and simulcast its primary channel programming in the current digital television standard 1.0, so that viewers without the ability to receive 3.0 will continue to receive KASW's primary broadcast service. Both KASW and KSAZ-TV are licensed to serve the Phoenix, AZ, DMA.¹

KASW is not proposing to make any changes to its transmitter location, antenna height, antenna pattern or effective radiated power and, therefore, the proposed 3.0 coverage contour will be the same as that of its current 1.0 contour. Referring to the attached coverage map, Figure 1, it is demonstrated that the coverage contour of the host simulcast 1.0 station, KSAZ-TV, well encompasses the current 1.0 and proposed 3.0 coverage contours of KASW. KASW will transmit both its 1.0 and 3.0 signals in compliance with the rules.²

Referring to the population count comparison, Figure 2, KASW is not predicted to experience any loss of population with KSAZ-TV serving as the simulcast host 1.0 station.

With no changes of transmission parameters being proposed by KASW for its 3.0 operation plus there being no loss of population for its 1.0 signal on the host station, this application should be eligible for expedited processing.³

¹ 47 CFR §73.3801(c)

² 47 CFR §73.682(f) and 47 CFR §73.682(f)(2)

³ 47 CFR §73.3801(f)(5)

**Figure 1 - Coverage Contour Comparison
Phoenix DMA Shown in Cyan**

**KASW, Channel 49, Phoenix, AZ, 531 kW ERP, Directional, 505 m HAAT
KASW on Host Station KSAZ-TV, Channel 10, Phoenix, AZ, 48 kW ERP, Directional, 558 m HAAT**

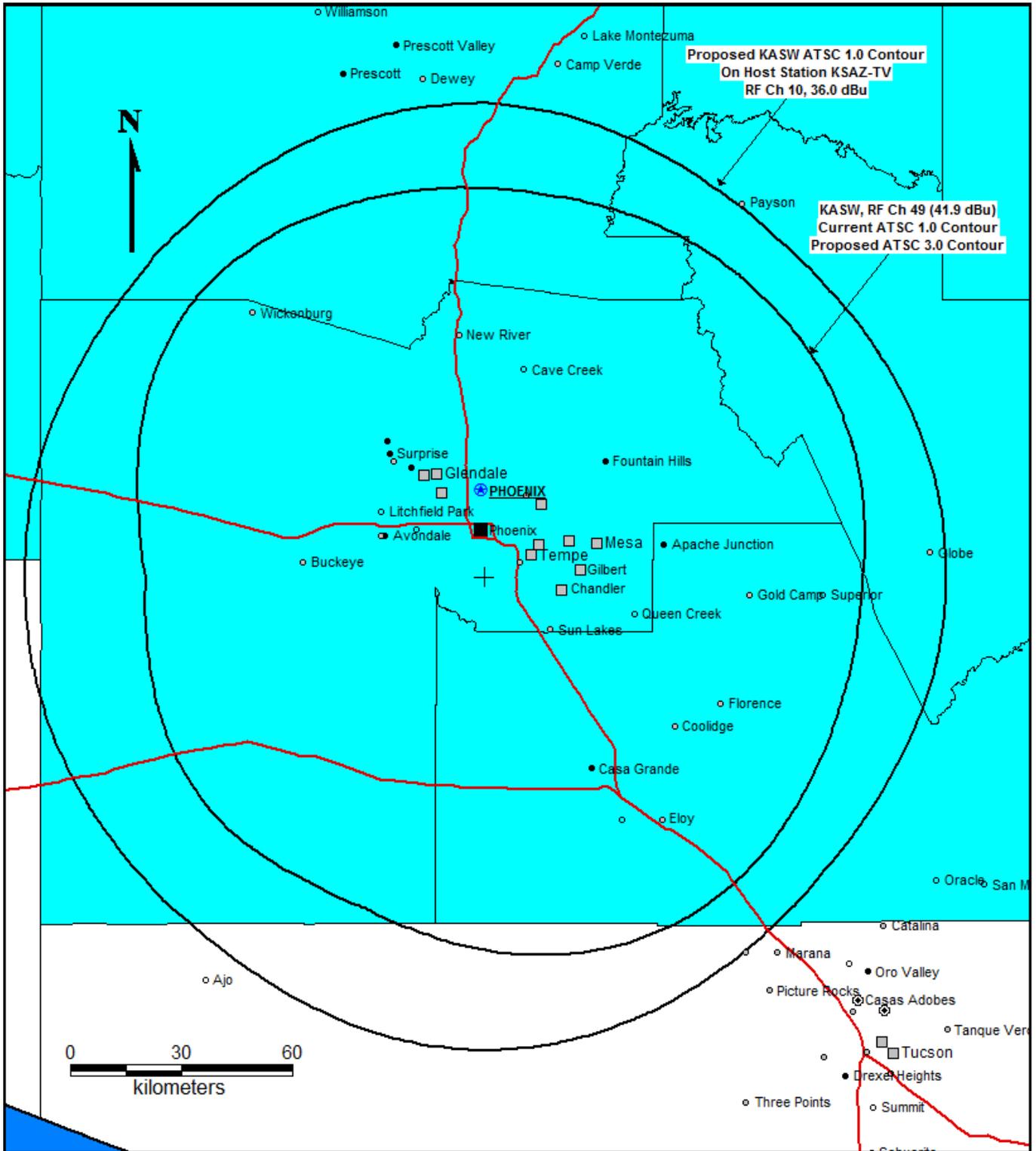


Figure 2
Population Count Comparison
KASW vs. KSAZ-TV

Below is a population count comparison of the KASW current ATSC 1.0 and proposed ATSC 3.0 operations with the proposed 1.0 operation on host station KSAZ-TV. Note that the population count of the proposed 1.0 operation on the host station exceeds that of the current 1.0 by 0.7%.

State	County	Population - Interference Free		Difference	Difference
		KASW Population	KSAZ-TV Population		
ARIZONA	Gila	243	1,983	1,740	716.0%
ARIZONA	Maricopa	3,797,434	3,813,802	16,368	0.4%
ARIZONA	Pima	17	2,186	2,169	12758.8%
ARIZONA	Pinal	348,970	350,450	1,480	0.4%
ARIZONA	Yavapai	3,699	12,411	8,712	235.5%
Total:		4,150,363	4,180,832	30,469	0.7%