

**ENGINEERING STATEMENT
FOX TELEVISION STATIONS, LLC
TELEVISION STATION WRBW, ORLANDO, FL
FCC FILE NUMBER 0000121965
APPLICATION TO OPERATE AN ATSC 3.0 NEXT GEN TV STATION**

This statement supports an application by FOX Television Stations, LLC, licensee of licensee of full power television station WRBW, FCC file number 0000121965, 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.

WRBW proposes to partner with television station WOFL, also licensed to FOX Television Stations, LLC, 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 WRBW's primary broadcast service. WRBW will continue to provide service over its entire city of license, Orlando, FL, with WOFL hosting the WRBW 1.0 signal. Both WRBW and WOFL are licensed to serve the Orlando - Daytona Beach - Melbourne, Florida, DMA.¹

WRBW's proposed 3.0 coverage contour will be almost the same as that of its current licensed 1.0 contour. Referring to the attached coverage map, Figure 1, it is shown that the coverage contour of the host simulcast 1.0 station, WOFL, almost replicates the current 1.0 and proposed 3.0 coverage contour of WRBW. WRBW will transmit both its 1.0 and 3.0 signals in compliance with the rules.²

Referring to the noise limited contour population count comparison in Figure 2, WRBW is predicted to serve 99.21% of the population currently served by its current 1.0 facility on 1.0 host station WOFL.

With WRBW serving more than 95% of its current population by 1.0 host WOFL 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
Orlando - Daytona Beach - Melbourne, FL DMA Shown in Cyan
WRBW, Ch. 28, Orlando, FL, 1000kW ERP, Non-Directional, 447m HAAT
ATSC 1.0 Host WOFL, Ch. 33, Orlando, FL, 1000kW ERP, Non-Directional, 447m HAAT

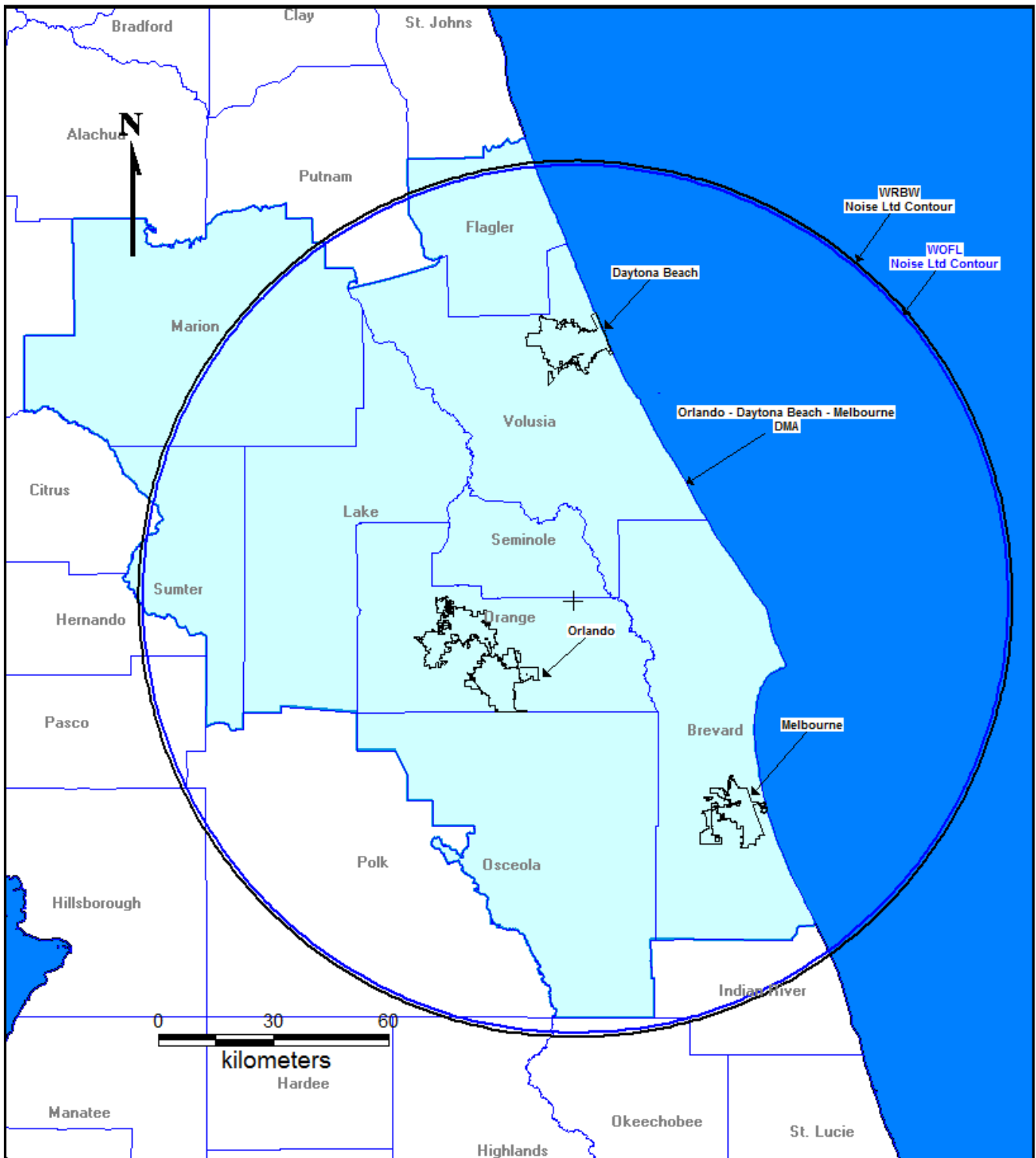


Figure 2
Population Count Comparison
WRBW vs. WOFL

Below is a noise limited service population count comparison of the current WRBW ATSC 1.0 and proposed ATSC 3.0 operations with the proposed ATSC 1.0 operation on host station WOFL. The noise limited service population count of the proposed ATSC 1.0 operation on host station WOFL is 99.21% of the current WRBW ATSC 1.0 facility.

		Population - Contour Limited			
		WRBW	WOFL		
State	County	Population	Population	Difference	
FL	Brevard	543,376	543,376	0	0.0%
FL	Citrus	426	72	-354	-83.1%
FL	Flagler	92,705	89,260	-3,445	-3.7%
FL	Hernando	6,362	5,801	-561	-8.8%
FL	Highlands	96	39	-57	-59.4%
FL	Hillsborough	297	297	0	0.0%
FL	Indian River	37,742	35,608	-2,134	-5.7%
FL	Lake	297,052	297,052	0	0.0%
FL	Marion	103,914	100,094	-3,820	-3.7%
FL	Okeechobee	225	9	-216	-96.0%
FL	Orange	1,145,956	1,145,956	0	0.0%
FL	Osceola	268,685	268,685	0	0.0%
FL	Pasco	19,646	8,033	-11,613	-59.1%
FL	Polk	542,483	533,513	-8,970	-1.7%
FL	Putnam	11,882	10,986	-896	-7.5%
FL	Seminole	422,718	422,718	0	0.0%
FL	Sumter	92,109	92,012	-97	-0.1%
FL	Volusia	494,593	494,593	0	0.0%
Total:		4,080,267	4,048,104	-32,163	-0.8%