

**Engineering Statement**  
**WFLD Channel 24 Chicago, IL**  
**Application to Simulcast ATSC 3.0 (NEXT GEN TV) on a Host Station**  
**January 5, 2024**

The purpose of this application is to request authorization to allow full service digital television station WFLD channel 24 Chicago, IL (Chicago DMA) to transmit an ATSC 3.0 (Next Gen TV) signal utilizing the facilities of full-service digital television station WBBM-TV channel 12 Chicago, IL (Chicago DMA).

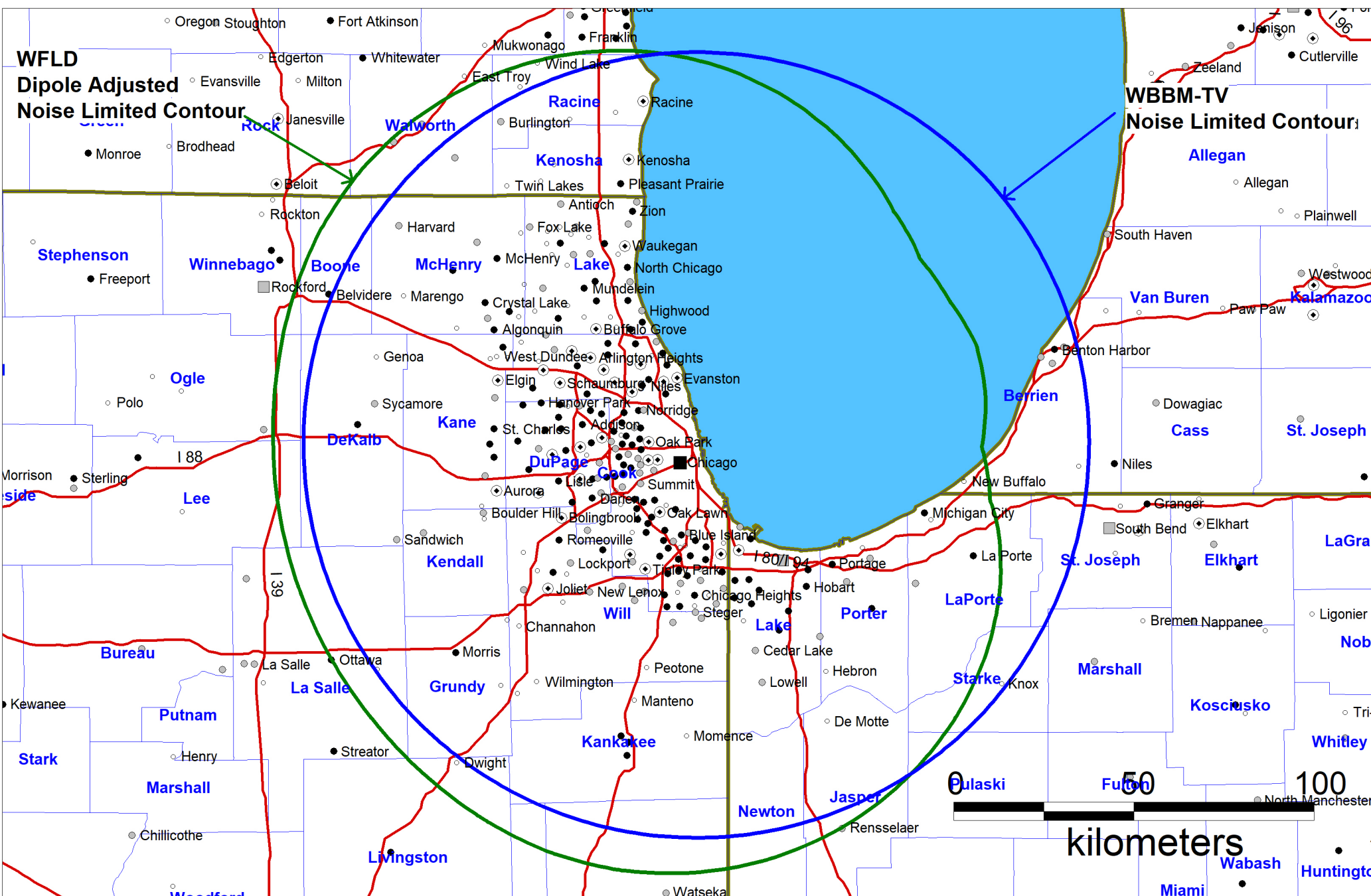
Both WFLD and WBBM-TV, as shown on the map below (Figure 1), are located in the Chicago DMA. The two stations are located at the same site (Willis Tower Chicago, IL) on adjacent antennas with the WFLD center of radiation being 20 m above that of WBBM-TV.

As noted above both stations are licensed to the Chicago DMA. Also, as shown on the attached maps and predicted service breakdown (Figure 2 below) the two stations provide similar coverage to the Chicago market. The WBBM-TV predicted service population (when computed inside the noise limited contour of WFLD) is essentially the same (99.6%) as WFLD.

In view of the above, WFLD will be in full compliance concerning the coverage requirements as stated in the Rules for providing its service in an ATSC 3.0 format on host station WBBM-TV.

It should be noted that the service comparisons provided in this statement are based on the licensed facility of WBBM-TV versus the WFLD post repack construction permit facility. Delays in ongoing building structural modifications at the Willis Tower have prevented WFLD from completing the buildout of its post repack facility. However, WFLD has transitioned to its post repack channel (24) via a STA at a nearby location but has not been able to license a facility on the new channel.

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**Figure 1**

**Predicted Service Contours**

**WFLD Channel 24 Chicago, IL**

**ERP 1,000 kW RCAMSL 700.1 m Antenna: DIE TFU-14ETT/VP-R C210**

**WBBM-TV Channel 12 Chicago, IL**

**ERP 10.9 kW RCAMSL 680 m Antenna: OMNI**

**Figure 2**

**Noise Limited Predicted Service Comparison  
WFLD CH 24 Chicago, IL vs WBBM-TV CH 12 Chicago, IL Inside WFLD NLC**

State	County	WFLD CP*		WBBM-TV Licensed		Gain / Loss		Percentage of WFLD Population Served by WBBM-TV
		ERP 1,000 kW DA HAAT 520 m	Population Households	ERP 10.9 kW OMNI HAAT 500.4 m	Population Households	Population	Households	
IL	BOONE	50,547	17,255	45,141	15,335	-5,406	-1,920	
IL	COOK	5,194,675	1,966,356	5,194,675	1,966,356	0	0	
IL	DEKALB	105,128	38,473	102,606	37,579	-2,522	-894	
IL	DUPAGE	916,924	337,132	916,924	337,132	0	0	
IL	FORD	706	279	706	279	0	0	
IL	GRUNDY	50,063	18,546	50,063	18,546	0	0	
IL	IROQUOIS	7,918	3,002	7,022	2,647	-896	-355	
IL	KANE	515,269	170,479	515,269	170,479	0	0	
IL	KANKAKEE	113,449	41,511	113,449	41,511	0	0	
IL	KENDALL	114,736	38,022	114,736	38,022	0	0	
IL	LAKE	703,462	241,712	703,462	241,712	0	0	
IL	LA SALLE	33,333	12,298	30,568	11,115	-2,765	-1,183	
IL	LEE	2,182	824	1,683	639	-499	-185	
IL	LIVINGSTON	6,537	2,135	6,537	2,135	0	0	
IL	MCHENRY	308,760	109,199	304,723	107,807	-4,037	-1,392	
IL	OGLE	1,736	642	803	297	-933	-345	
IL	WILL	677,560	225,256	677,560	225,256	0	0	
IL	WINNEBAGO	4,466	1,793	691	325	-3,775	-1,468	
IN	JASPER	25,987	9,500	23,392	8,473	-2,595	-1,027	
IN	LAKE	496,005	188,157	496,005	188,157	0	0	
IN	LA PORTE	101,938	38,739	101,938	38,739	0	0	
IN	NEWTON	10,294	3,929	9,400	3,588	-894	-341	
IN	PORTER	164,343	61,998	164,343	61,998	0	0	
IN	PULASKI	649	264	649	264	0	0	
IN	STARKE	4,204	1,672	4,204	1,672	0	0	
MI	BERRIEN	4,540	2,108	4,540	2,108	0	0	
WI	KENOSHA	166,426	62,650	166,426	62,650	0	0	
WI	MILWAUKEE	277	81	277	81	0	0	
WI	RACINE	190,045	73,714	186,448	72,350	-3,597	-1,364	
WI	ROCK	17	5	0	0	-17	-5	
WI	WALWORTH	60,693	23,920	47,543	18,645	-13,150	-5,275	
<b>TOTALS</b>		<b>10,032,869</b>	<b>3,691,651</b>	<b>9,991,783</b>	<b>3,675,897</b>	<b>-41,086</b>	<b>-15,754</b>	<b>99.6%</b>

\* WFLD CP Facility used for service comparison due to no licensed facility on channel 24 See Engineering Statement above for explanation