



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN AMENDMENT TO AN  
APPLICATION FOR  
A MINOR MODIFICATION OF A  
POST REPACK LICENSE  
FILE # 0000162833  
WCWF - SURING, WISCONSIN  
DTV - CH. 15 - 700 kW - 360 m HAAT**

Prepared for: WCWF LICENSEE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, No. 7418, and in New York State, No. 63418.

**GENERAL**

This office has been authorized by WCWF LICENSEE, LLC, licensee of WCWF, channel 15, facility ID number 73042, licensed to Suring, Wisconsin, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an amendment to its pending application for a minor modification of its post-reassignment license, file number 0000162833. The instant amendment is submitted to provide information requested by FCC staff. The pending application proposes to rotate its licensed antenna, a Dielectric model TFU-24DSC/VP-R C170 elliptically polarized directional antenna an additional sixty-five degrees clockwise from its licensed azimuth pattern. The proposed rotation results in a significant change in WCWF's predicted service

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area. The staff requests that the applicant provide an analysis of the area where WCWF is predicted to no longer provide DTV service as a result of the proposed rotation of the horizontal azimuth pattern of its authorized antenna.

**RESULT OF AREA ANALYSIS**

As shown in the map exhibits submitted herein the applicant has determined that the predicted "loss area" contains a total of 22,814 residents of which 21,641 will continue to receive five or more full-power DTV services, 708 residents will continue to receive four services and 465 persons will continue to receive two services. No persons residing in the "loss area" is predicted to receive only one, or no service.

The second map exhibit displays the predicted "gain area" that is a result of the proposed rotation. The total population residing in that area is 101,680 persons. By subtracting the population of the "loss area", of which 94.8% receive five or more other services, the net gain of potential viewers is 78,866 persons. The resulting total population to be served by WCWF as a result of the proposed antenna pattern rotation is predicted to be 1,180, 958, which is an increase of more that 7%.

**OCCUPATIONAL SAFETY**

The licensee of WCWF is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WCWF antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

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**SUMMARY**

It is submitted that the instant amendment to the pending application for a minor modification of its post-reassignment channel 15 license, file # 0000162833 to rotate its licensed Dielectric model TFU-24DSC//VP-R C170 elliptically polarized directional antenna's horizontal azimuth patterns sixty-five degrees clockwise, does provide the information requested by staff to clarify the remaining DTV coverage of the predicted area that would, as a result of the instant proposal, no longer receive service from WCWF. This statement, FCC Form 2100, its technical sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: January 20, 2022



# WCWF-D 15 Suring, WI - Study of Proposed Loss Area

## WCWF-D - CH15

Suring, WI - 479.0 MHz

FACID:73042

File:0000162833

Lat: 44-24-32 N

Long: 087-59-31 W

ERP: 700.00 kW HAAT: 360.0

RCAMSL: 589.7 m

Ground Elev: 270.7 m

Pattern: Directional

- WCWF-D (15)
- WCWF-D.A (15)
- WAOW-D.C (9)
- WBAY-TV (23)
- WBAY-TV (23)
- WHRM-TV (24)
- WJFW-TV (16)
- WLUK-TV (12)
- WMOW-D (13)
- WPNE-TV (25)
- WSAW-TV (7)
- WTPX-TV (19)
- WGBA-TV.A (14)

## Count Area Population Housing Units Area (sq. km)

Loss Area	22,814	14,804	2,531.0
1 Service	0	0	0.00
2 Service	465	328	51.3
3 Service	0	0	6.2
4 Service	708	1,404	110.0
5 or more	21,641	13,072	2,363.5

## Service Count within Loss Area

- 1 Remaining Service
- 2 Remaining Services
- 3 Remaining Services
- 4 Remaining Services
- 5 or more Remaining Services



Scale 1:1,200,000  
0 10 20 30 km

## Close-Up View of Loss Area

# WCWF-D 15 Suring, WI - Proposed Gain Area

## WCWF-D - CH15

Suring, WI - 479.0 MHz  
FACID:73042  
File:0000162833  
Lat: 44-24-32 N  
Long: 087-59-31 W  
ERP: 700.00 kW HAAT: 360.0  
RCAMSL: 589.7 m  
Ground Elev: 270.7 m  
Pattern: Directional

- WCWF-D (15)
- WCWF-D.A (15)

38.83 dBu

## Gain Area Population Report

Total Population: 101,680  
Housing Units: 44,707  
Total Area: 1,993.5 sq. km

## NET GAIN

	Population	Housing Units	Land Area
Gain Area =	101,680	44,707	1993.5
Loss Area =	22,814	14,804	2531.0
Net Gain	78,866	29,903	- 537.5

## Population Report for Proposed Noise Limited Contour

	Population	Housing Units	Area (sq. km)
WCWF-D.A (15) [ Suring, WI ]			
FCC F(50-90) 38.83 dBu (	1,180,958	529,105	29143.7



Scale 1:1,200,000

