

Public Interest Showing
In Support of an Amendment to an Application to
Change Daytime and Nighttime Power
WRSB – Brockport, NY
1600 kHz ▪ Facility ID No. 15767

This application seeks to remediate objectionable overlap received within the WRSB protected contour and caused to the WGGO protected contour.

With the commission's focus on revitalization of the AM band, we believe that approval of this application is necessary for the financial and technical ability to continue service provided for in WRSB's coverage area. These increases demonstrate, in part, the public interest benefit associated with an expeditious grant of the requested waiver and the Application, as submitted.

REDUCTIONS IN OVERLAP

This application significantly improves the effectiveness of WRSB as a broadcast facility. The table below depicts the public benefit from the proposed modification of WRSB.

Current Overlap:

Station	Interference to WRSB	Population	Land (sq. km)
WGGO*	RECEIVED	122,314	2,221.6
WGGO	CAUSED BY	4,496	212.6
WAUB	RECEIVED	18,281	121

WGGO – WRSB CURRENT OVERLAP

The licensed WRSB daytime groundwave contours were obtained from granted application BP-20150123AHG. According to the application, ground conductivities were calculated every five degrees from 0° to 355° True using the calculated standard pattern inverse distance field for each azimuth. Ground conductivity values for all azimuths were obtained from §73.190, Figure M3 of the FCC rules. Calculations were made at 0°, 30°, 70°, 100°, 112°, 120.5°, 130°, 159°, 180°, 190°, 232°, 239.5°, 270° and 310° True using conductivities from the November 1980 WRSB (WJBT) AM Directional Proof of Performance.

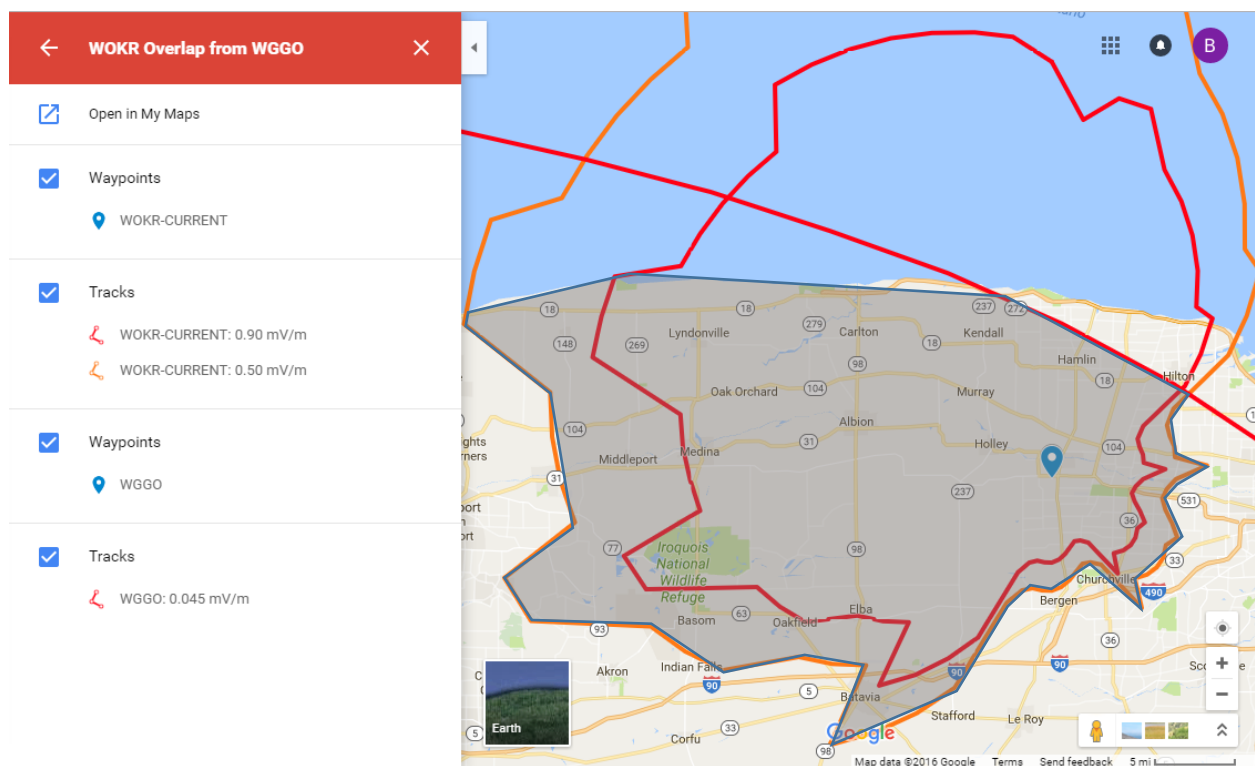


Figure 1 - WRSB Received Overlap by WGGO

The shaded area shows the area of overlap where a desired to objectionable interference limit of 20:1 is exceeded.

INTERFERENCE CAUSED TO WRSB 1590 BY WGGO 1590

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Project: WGGO and WRSB

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WGGO Source Coordinates: 42-10-24 North 78-41-07 West

WRSB Source Coordinates: 43-11-44 North 77-57-05 West

This program uses the 2010 US Census Database: PL 94-171.

Distance to the Contours are interpolated between Azimuths.

Centroids within WGGO Contour and within WRSB Contour.

WGGO Contour is 0.045 mV/m. WRSB Contour is 0.500 mV/m.

Warren County	Population :	728	
NY, Erie County	County Total Persons:	919,040	
	Persons in Contour:	0%	
Area County Total:	2,701 sq. km	Contour:	29 sq. km = 1%
NY, Genesee County	Population :	27,653	
	County Total Persons:	60,079	
	Persons in Contour:	46%	
Area County Total:	1,277 sq. km	Contour:	495 sq. km = 39%
NY, Monroe County	Population :	40,648	
	County Total Persons:	744,344	
	Persons in Contour:	5%	
Area County Total:	1,702 sq. km	Contour:	350 sq. km = 21%
NY, Niagara County	Population :	10,541	
	County Total Persons:	216,469	
	Persons in Contour:	5%	
Area County Total:	1,353 sq. km	Contour:	336 sq. km = 25%
NY, Orleans County	Population :	42,744	
	County Total Persons:	42,883	
	Persons in Contour:	100%	
Area County Total:	1,013 sq. km	Contour:	1,011 sq. km = 100%

SUMMARY: Population : 122,314

Land Area in Contour from Census: 2,221.6 sq. km

Interference Caused to WGGO by WRSB 1590

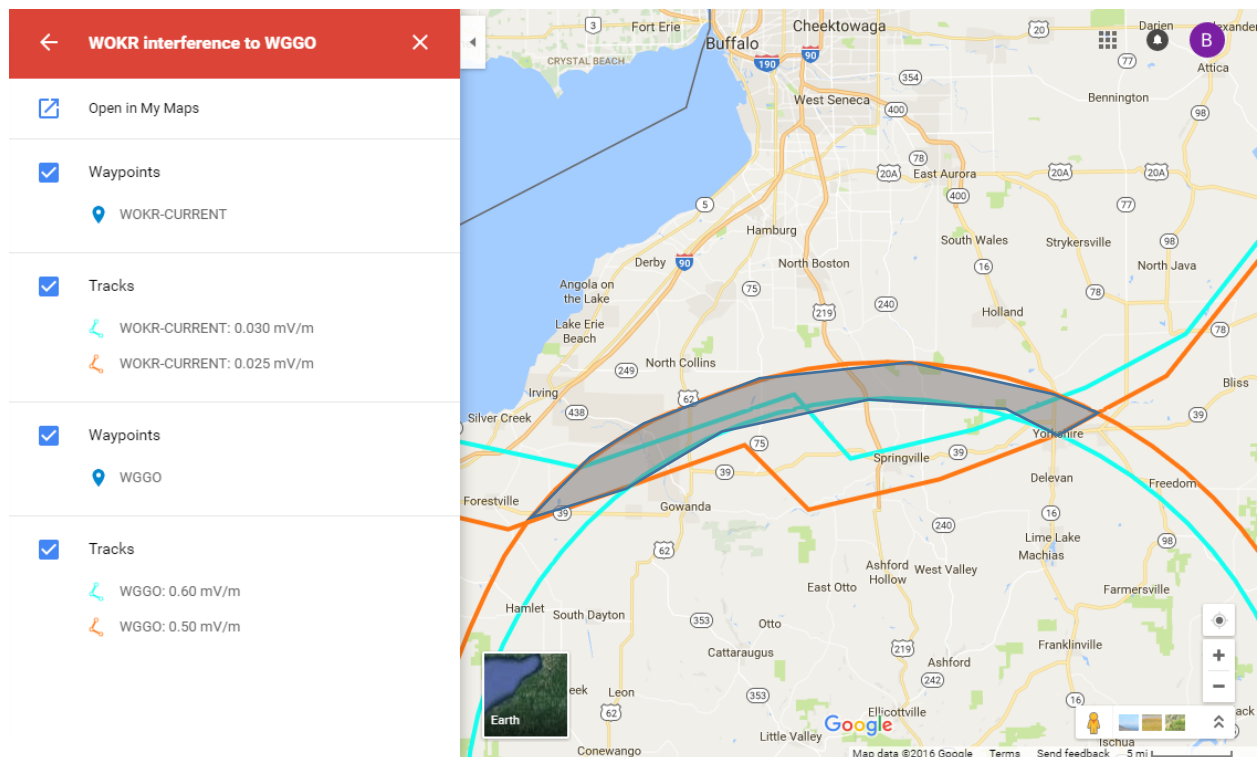


Figure 2 - WRSB Overlap on WGGO

The shaded area shows the area of overlap where a desired to objectionable interference limit of 20:1 is exceeded.

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Project: WRSB and WGGO

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WRSB Source Coordinates: 43-11-44 North 77-57-05 West

WGGO Source Coordinates: 42-10-24 North 78-41-07 West

This program uses the 2010 US Census Database: PL 94-171.

Distance to the Contours are interpolated between Azimuths.

Centroids within WRSB Contour and within WGGO Contour.

WRSB Contour is 0.025 mV/m. WGGO Contour is 0.500 mV/m.

NY, Cattaraugus County	Population :	1,127
County Total Persons:	80,317	
Persons in Contour:	1%	
Area County Total:	3,389 sq. km	Contour: 57 sq. km = 2%
NY, Chautauqua County	Population :	131
County Total Persons:	134,905	
Persons in Contour:	0%	

Area County Total: 2,746 sq. km Contour: 12 sq. km = 0%

NY, Erie County Population : 11,583
County Total Persons: 919,040
Persons in Contour: 1%
Area County Total: 2,701 sq. km Contour: 363 sq. km = 13%

NY, Wyoming County Population : 364
County Total Persons: 42,155
Persons in Contour: 1%
Area County Total: 1,535 sq. km Contour: 6 sq. km = 0%

Yates County

SUMMARY: Population : 13,205 (Region 1 + 2)
Land Area in Contour from Census: 437.4 sq. km

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WRSB Source Coordinates: 43-11-44 North 77-57-05 West
WGGO Source Coordinates: 42-10-24 North 78-41-07 West

This program uses the 2010 US Census Database: PL 94-171.
Distance to the Contours are interpolated between Azimuths.
Centroids within WRSB Contour and within WGGO Contour.
WRSB Contour is 0.025 mV/m. WGGO Contour is 0.600 mV/m.

NY, Cattaraugus County Population : 541
County Total Persons: 80,317
Persons in Contour: 1%
Area County Total: 3,389 sq. km Contour: 29 sq. km = 1%

NY, Erie County Population : 8,168
County Total Persons: 919,040
Persons in Contour: 1%
Area County Total: 2,701 sq. km Contour: 196 sq. km = 7%

Yates County

SUMMARY: Population : 8,709 (Region 1)
Land Area in Contour from Census: 224.8 sq. km

Region 2 Population = 13,205-8,709 = 4,496
Region 2 Land Area = 437.4 sq. km - 224.8 sq. km = 212.6 sq. km

WAUB – WRSB CURRENT OVERLAP

Recently granted application BP-20150123AHG for WAUB acknowledges the issue of existing overlap. *“Existing Overlap with WOKR of the licensed WAUB 0.025 mV/m groundwave contour with the licensed WOKR 0.5 mV/m groundwave contour has long existed.”* This section demonstrates the impact of the overlap. Note: WOKR is now WRSB.

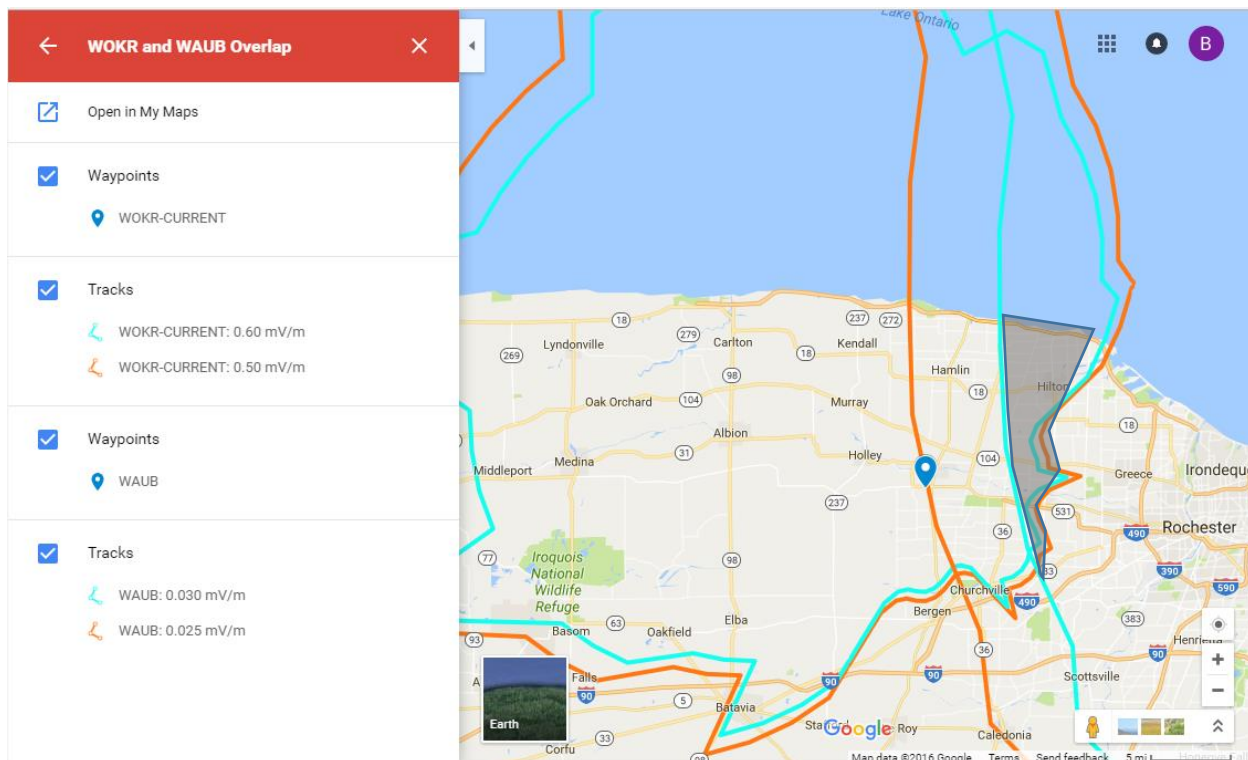


Figure 3 - WRSB Received Overlap by WAUB

The shaded area shows the area of overlap where a desired to objectionable interference limit of 20:1 is exceeded.

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Project: WAUB and WRSB

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WAUB Source Coordinates: 42-54-34 North 76-36-09 West

WRSB Source Coordinates: 43-11-44 North 77-57-05 West

This program uses the 2010 US Census Database: PL 94-171.

Distance to the Contours are interpolated between Azimuths.

Centroids within WAUB Contour and within WRSB Contour.

WAUB Contour is 0.030 mV/m. WRSB Contour is 0.500 mV/m.

Yates County
