

EXHIBIT 15
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SKYWAVE INTERFERENCE STUDY
WCBM Maryland, Inc.
Baltimore, MD

There are two domestic Class A stations that operate on 670 kHz through 690 kHz that require protection consideration during nighttime hours. These stations are WSCR - Chicago, IL (670 kHz) and KNBR - San Francisco, CA (680 kHz). Since the entirety of protected nighttime service areas for both of these stations are located outside the arcs of the proposed augmentations, no additional showing is necessary to document that the proposed modified (augmented) WCBM nighttime pattern complies with the applicable protection requirements to both of these Class A stations.

Nighttime computer allocation studies were conducted for domestic Class B stations entitled to protection consideration operating at night on 670 kHz through 690 kHz and all other Region II Class B stations operating at night on 680 kHz that lie within the arcs of the proposed augmentations. The computer program calculates the distances and bearings between all stations operating on these channels using great circle calculation techniques. Appropriate curves from the FCC Rules and applicable international agreements were then used to compute the critical elevation angles and skywave field factors for determining the RSS limitation for each station. The parameters for the nighttime operation of each station were taken from the FCC's Consolidated Database System ("CDBS"). These parameters were then used by the computer to calculate the RSS limitation for each station. RSS limitations to and from domestic Class D stations were not included in these RSS calculations, since the nighttime operations of these stations are secondary and are afforded no interference protection.

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There are only three Class B stations requiring protection consideration operating at night within the arcs of the proposed augmentations. These stations are:

WDBC	Escanaba, MI	680 kHz
WINR	Binghamton, NY	680 kHz
CFTR	Toronto, ON	680 kHz

Tables 15.0-15.2 present the RSS limitations to these three stations. As shown in Table 15.1, the presently licensed WCBM nighttime facilities enter the 50% exclusion RSS limitation to WINR. This table also shows that the proposed modified WCBM nighttime facilities will comply with the required 10% reduction in radiation toward WINR, as outlined in Note 1 to the table contained in Section 73.182(q) of the FCC Rules. Finally, these tables show that the proposed modified WCBM nighttime facilities will provide the required nighttime protection to WDBC and CFTR

TABLE 15.0
RSS LIMITATIONS TO WDBC

WCBM MARYLAND, INC.
BALTIMORE, MD

CALL SIGN: WDBC
LOCATION: ESCANABA, MI
FREQUENCY: 680 kHz

LATITUDE: N 45-45-53
LONGITUDE: W 87-05-48

FROM STATION	LOCATION	FREQUENCY (kHz)	DISTANCE (km)	SLANT DISTANCE (km)	MAGNETIC		HORIZONTAL RADIATION (mV/m @ 1 km)	CRITICAL VERTICAL WINDOW (Degrees)	MAXIMUM WINDOW RADIATION (mV/m @ 1 km)	SKYWAVE FIELD (mV/m)	LIMIT (mV/m)	RSS LIMIT (mV/m)	
					MIDPOINT LATITUDE (Degrees)	BEARING (Degrees)						25% EXCLUSION	50% EXCLUSION
WSCR	CHICAGO, IL	670	433.1	477.0	54.6	10.1	2679.9	17.4-27.9	2223.8	0.122183	5.434	5.434	5.434
WPTF	RALEIGH, NC	680	1310.3	1325.5	52.0	330.3	1157.0	3.3-7.4	1149.9	0.022136	5.091	7.446	7.446
WOGO	HALLIE, WI	680	348.9	402.2	55.9	72.3	105.0	21.6-33.6	128.4	0.153867	3.952	8.430	8.430
KFEQ	ST. JOSEPH, MO	680	910.8	932.5	53.3	41.1	406.7	6.9-12.6	425.1	0.040224	3.419	9.097	
WNZK	DEARBORN HEIGHTS, MI	680	506.9	544.9	54.9	324.8	73.1	14.7-24.1	172.0	0.096877	3.333	9.688	
WCTT	CORBIN, KY	680	1016.8	1036.2	52.3	346.6	467.4	5.8-10.9	463.1	0.034811	3.224	10.211	
WDRD	NEWBURG, KY	680	861.0	883.9	52.8	352.7	332.6	7.5-13.6	327.0	0.045457	2.973	10.635	
CFTR	TORONTO, ON	680	657.8	687.5	55.6	298.1	271.0	10.9-18.5	233.8	0.062432	2.919	11.028	
WCBM(PROPOSED)	BALTIMORE, MD	680	1097.4	1115.4	53.8	313.7	341.6	5.0-9.8	356.7	0.027857	1.987		
KNBR	SAN FRANCISCO, CA	680	3030.6	3037.2	51.7	61.2	2560.4	0.0-0.0	2560.4	0.003707	1.898		

TABLE 15.1
RSS LIMITATIONS TO WNR

WCBM MARYLAND, INC.
BALTIMORE, MD

CALL SIGN: WNR
LOCATION: BINGHAMTON, NY
FREQUENCY: 680 kHz

LATITUDE: N 42-06-53
LONGITUDE: W 75-51-16

FROM STATION	LOCATION	FREQUENCY (kHz)	DISTANCE (km)	SLANT DISTANCE (km)	MAGNETIC MIDPOINT LATITUDE (Degrees)	BEARING (Degrees)	HORIZONTAL RADIATION (mV/m @ 1 km)	CRITICAL VERTICAL WINDOW (Degrees)	MAXIMUM WINDOW RADIATION (mV/m @ 1 km)	SKYWAVE FIELD (mV/m)	LIMIT (mV/m)	RSS LIMIT (mV/m)	
												25% EXCLUSION	50% EXCLUSION

WITH WCBM(LIC.):													
WCBM	BALTIMORE, MD	680	310.7	369.5	52.1	14.2	354.5	24.1-36.9	296.2	0.194414	11.518	11.518	11.518
WPTF	RALEIGH, NC	680	746.2	772.5	50.3	18.8	674.1	9.2-16.1	635.2	0.062827	7.982	14.013	14.013
WRKO	BOSTON, MA	680	383.5	432.5	53.8	265.3	216.6	19.7-31.1	180.5	0.146819	5.301	14.983	
CINF	MONTREAL, QU	690	403.4	450.3	55.2	206.2	921.6	18.7-29.7	1004.9	0.131554	2.644		
WCAW	CHARLESTON, WV	680	641.0	671.5	51.5	47.0	137.2	11.2-19.0	133.4	0.076629	2.044		
WITH PROPOSED WCBM													
WCBM(PROPOSED)	BALTIMORE, MD	680	316.2	374.1	52.1	15.2	259.0	23.8-36.4	217.9	0.190883	8.319	8.319	8.319
WPTF	RALEIGH, NC	680	746.2	772.5	50.3	18.8	674.1	9.2-16.1	635.2	0.062827	7.982	11.529	11.529
WRKO	BOSTON, MA	680	383.5	432.5	53.8	265.3	216.6	19.7-31.1	180.5	0.146819	5.301	12.689	
CINF	MONTREAL, QU	690	403.4	450.3	55.2	206.2	921.6	18.7-29.7	1004.9	0.131554	2.644		
WCAW	CHARLESTON, WV	680	641.0	671.5	51.5	47.0	137.2	11.2-19.0	133.4	0.076629	2.044		

Note: Proposed WCBM facilities will provide the required reduction in radiation toward this station.

TABLE 15.2
RSS LIMITATIONS TO CFTR

WCBM MARYLAND, INC.
BALTIMORE, MD

CALL SIGN: CFTR
LOCATION: TORONTO, ON
FREQUENCY: 680 kHz

LATITUDE: N 43-12-50
LONGITUDE: W 79-36-30

FROM STATION	LOCATION	FREQUENCY (kHz)	DISTANCE (km)	BEARING (Degrees)	HORIZONTAL RADIATION (mV/m @ 1 km)	CRITICAL VERTICAL WINDOW (Degrees)	MAXIMUM WINDOW RADIATION (mV/m @ 1 km)	SKYWAVE FIELD (mV/m)	LIMIT (mV/m)	RSS LIMIT (mV/m) 50% EXCLUSION
WPTF	RALEIGH, NC	680	828.1	355.2	1130.3	11.2-11.2	1052.7	0.083441	17.568	17.568
WINR	BINGHAMTON, NY	680	330.3	293.0	227.0	29.4-29.4	234.3	0.162580	7.618	
WCIT	CORBIN, KY	680	798.0	27.1	384.8	11.7-11.7	372.9	0.086657	6.464	
WCBM(PROPOSED)	BALTIMORE, MD	680	484.7	332.6	258.3	20.5-20.5	247.1	0.126830	6.268	