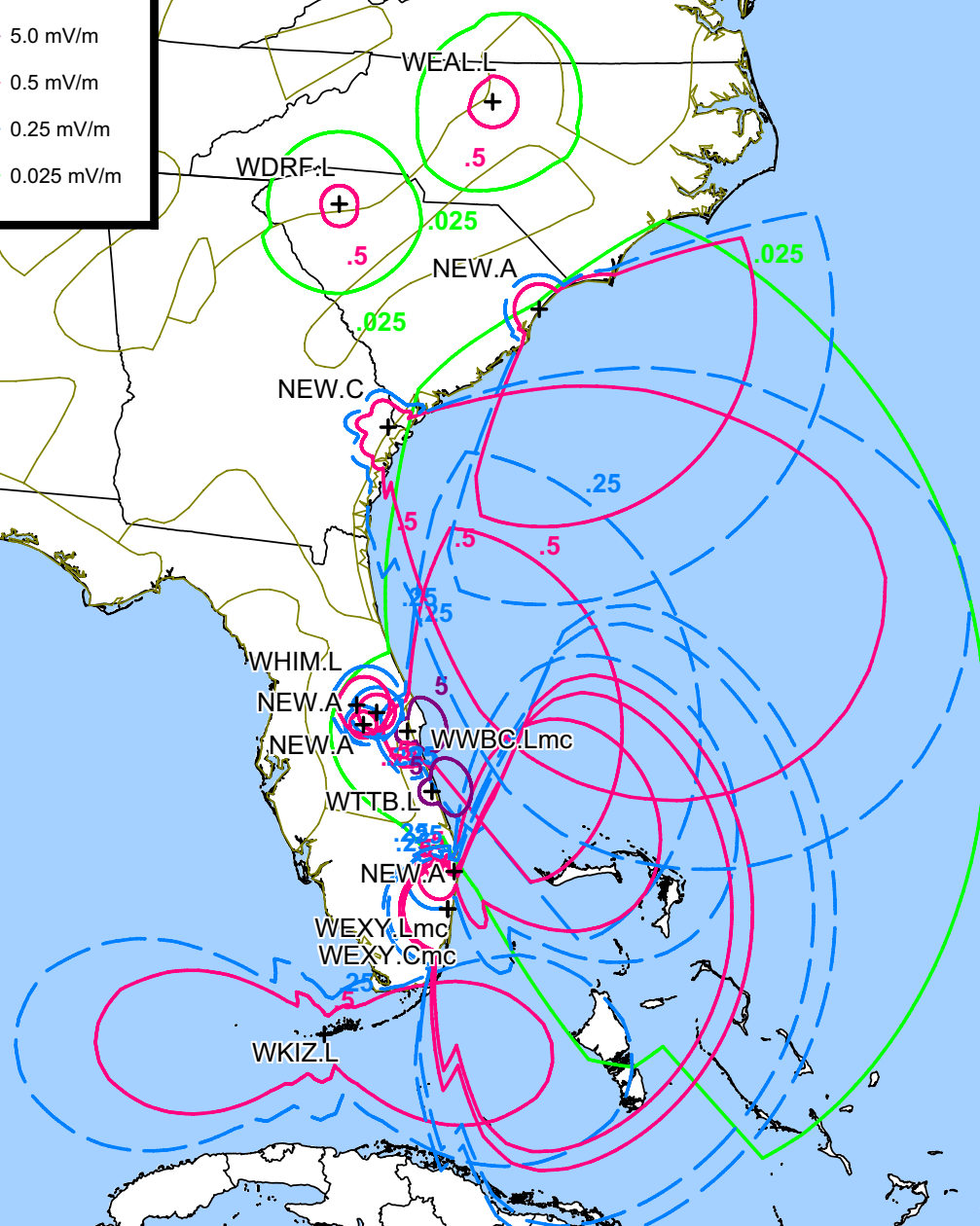


WWBC.Lmc
Present Licensed Operation
Freq: 1510 kHz
Class: D
Latitude: 28-21-12 N
Longitude: 080-46-45 W
Power: 0.75 kW
RMS: 343.34 mV/m @1km
Towers: 1
Aucs: 0

Exhibit 15.1 - Domestic
Map M-3 Present
Allocation Study
Page 1 of 2

5.0 mV/m
0.5 mV/m
0.25 mV/m
0.025 mV/m



Scale 1:10,000,000

0 140 280 420 km

Present Domestic Map M3 Allocation Study

AM Daytime Study

Reference Station:

Call: WWBC.Lmc Freq: 1510 kHz COCOA, FL, US
 Lat: 28-21-12 N Power: 0.75 kW
 Lng: 080-46-45 W Theo RMS: 343.34 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	143.7	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
NEW.C	1520	SAVANNAH	GA	413.6	354.3	-74688.00*	-121028.00*
WEXY.Cmc	1520	WILTON MANOR	FL	249.2	165.8	-43160.00*	-71052.00*
WEXY.Lmc	1520	WILTON MANOR	FL	249.2	165.8	-41508.00*	-64072.00*
NEW.A	1500	PALM SPRINGS	FL	201.7	160.3	-46560.00	-52400.00
NEW.A	1500	MURRELLS INLE	SC	599.6	16.5	-10832.00	-10520.00
NEW.A	1500	UNION PARK	FL	48.9	299.1	-663.75	-567.75
WHIM.L	1520	APOPKA	FL	77.5	295.1	-610.75	-245.25
NEW.A	1500	TAFT	FL	60.5	276.2	3.24	0.69
WTTB.L	1490	VERO BEACH	FL	88.7	156.4	54.04	54.04
WEAL.L	1510	GREENSBORO	NC	859.8	6.5	527.54	306.33
WKIZ.L	1500	KEY WEST	FL	430.5	192.8	331.40	348.04
WDRF.L	1510	WOODRUFF	SC	720.2	350.0	561.60	467.94

* Denotes contour overlap falling completely over water and may therefore be disregarded. The applicant would also like to make note this augmentation application affects only the bearings between 180.0°T to 230.0°T and 259.0°T to 279.0°T. No domestic concerns will be affected over these arcs which have not already been granted under BP-20040109AAO.

Denotes "NEW" facilities filed for on 01-30-2004 which failed to provide adequate protection to BP-20040109AAO, which was filed for three weeks previous. In the cases of Murrells Inlet, SC and Palm Springs, FL, the actual augmented bearings between 180.0°T to 230.0°T and 259.0°T to 279.0°T do not affect either application as these bearings remain unchanged from the granted BP-20040109AAO. In the case of Union Park, even though the application failed to protect the WWBC(AM) construction permit, this augmented application Given contour overlap to Union Park has been reduced from the WWBC(AM) licensed operation given contour overlap. Increases in received contour overlap from Union Park are allowed at the Proof of Performance stage under §73.152(d)(2) as no actual objectionable interference is being caused TO another station.

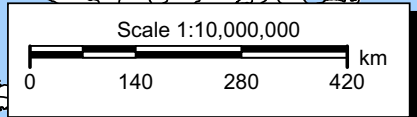
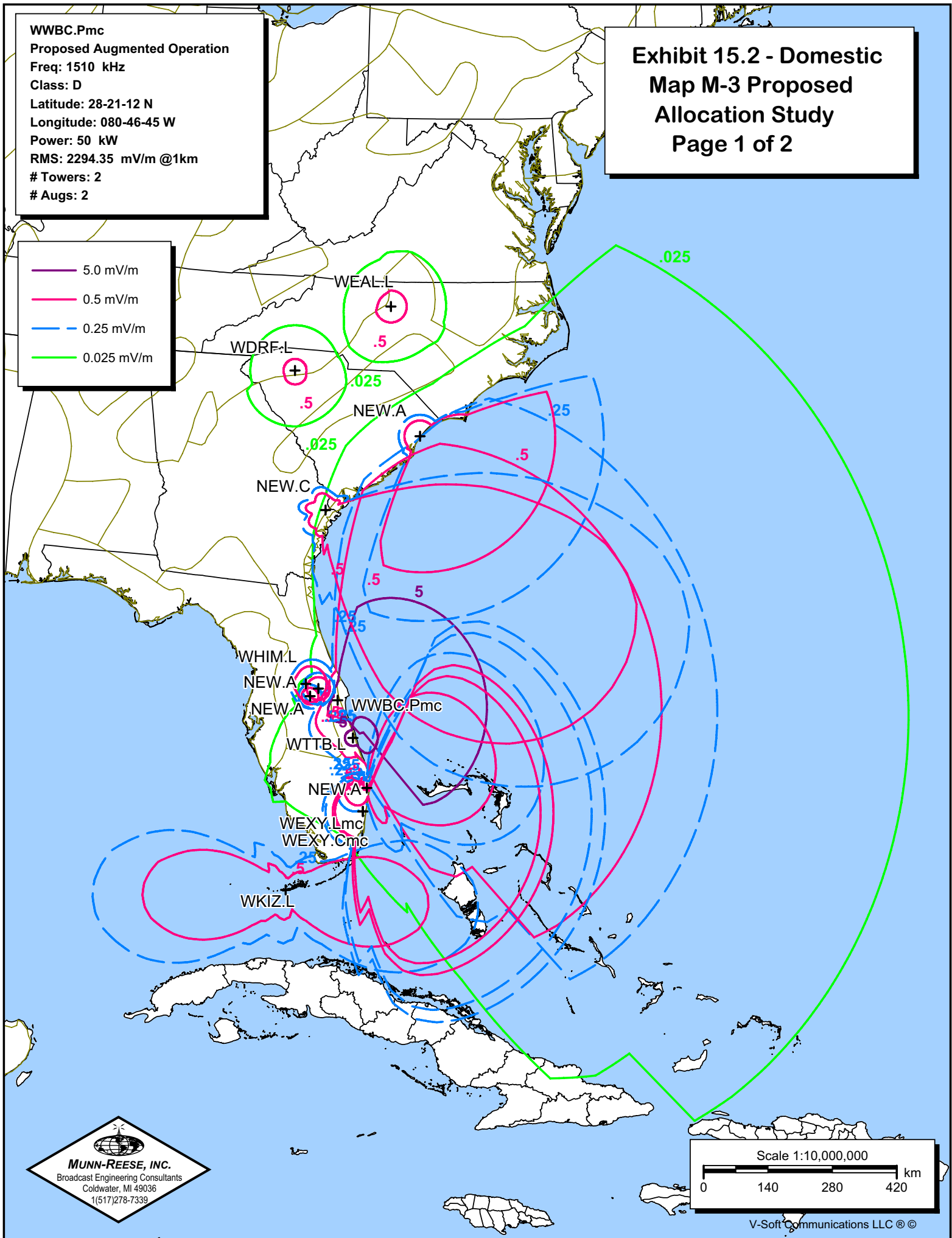
Given contour overlap to WHIM(AM) has been reduced from the existing licensed operation. Received contour overlap has been increased slightly, however increases in received contour overlap at the Proof of Performance stage are allowed under §73.152(d)(2) as no actual objectionable interference is being caused TO another station.

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

WWBC.Pmc
Proposed Augmented Operation
Freq: 1510 kHz
Class: D
Latitude: 28-21-12 N
Longitude: 080-46-45 W
Power: 50 kW
RMS: 2294.35 mV/m @1km
Towers: 2
Augs: 2

Exhibit 15.2 - Domestic
Map M-3 Proposed
Allocation Study
Page 1 of 2

5.0 mV/m
0.5 mV/m
0.25 mV/m
0.025 mV/m



Proposed Domestic Map M3 Allocation Study

AM Daytime Study

Reference Station:

Call: WWBC.Pmc Freq: 1510 kHz COCOA, FL, US
 Lat: 28-21-12 N Power: 50.0 kW
 Lng: 080-46-45 W Theo RMS: 2294.35 mV/m @ 1km
 # of Augmentations: 2

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.052	124.0	0.0	0.0	143.7	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	60.0	110.0	80.0	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
NEW.C	1520	SAVANNAH	GA	413.6	354.3	-370444.00*	-284828.00*
WEXY.Cmc	1520	WILTON MANOR	FL	249.2	165.8	-231932.00*	-155124.00*
WEXY.Lmc	1520	WILTON MANOR	FL	249.2	165.8	-207312.00*	-135184.00*
NEW.A	1500	MURRELLS INLE	SC	599.6	16.5	-128756.00	-98688.00
NEW.A	1500	PALM SPRINGS	FL	201.7	160.3	-122744.00	-61696.00
WTTB.L	1490	VERO BEACH	FL	88.7	156.4	-1876.00*	-1876.00*
NEW.A	1500	UNION PARK	FL	48.9	299.1	-596.25	-335.25
WHIM.L	1520	APOPKA	FL	77.5	295.1	-629.25	-33.75
NEW.A	1500	TAFT	FL	60.5	276.2	7.67	6.81
WEAL.L	1510	GREENSBORO	NC	859.8	6.5	272.44	208.35
WKIZ.L	1500	KEY WEST	FL	430.5	192.8	-3856.25*	291.93
WDRF.L	1510	WOODRUFF	SC	720.2	350.0	542.11	311.14

* Denotes contour overlap falling completely over water and may therefore be disregarded. The applicant would also like to make note this augmentation application affects only the bearings between 180.0°T to 230.0°T and 259.0°T to 279.0°T. No domestic concerns will be affected over these arcs which have not already been granted under BP-20040109AAO.

Denotes "NEW" facilities filed for on 01-30-2004 which failed to provide adequate protection to BP-20040109AAO, which was filed for three weeks previous. In the cases of Murrells Inlet, SC and Palm Springs, FL, the actual augmented bearings between 180.0°T to 230.0°T and 259.0°T to 279.0°T do not affect either application as these bearings remain unchanged from the granted BP-20040109AAO. In the case of Union Park, even though the application failed to protect the WWBC(AM) construction permit, this augmented application Given contour overlap to Union Park has been reduced from the WWBC(AM) licensed operation given contour overlap. Increases in received contour overlap from Union Park are allowed at the Proof of Performance stage under §73.152(d)(2) as no actual objectionable interference is being caused TO another station.

Given contour overlap to WHIM(AM) has been reduced from the existing licensed operation. Received contour overlap has been increased slightly, however increases in received contour overlap at the Proof of Performance stage are allowed under §73.152(d)(2) as no actual objectionable interference is being caused TO another station.

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcast Engineering Consultants
 Coldwater, MI 49036

WWBC.L
Present Licensed Operation
Freq: 1510 kHz
Class: D
Latitude: 28-21-12 N
Longitude: 080-46-45 W
Power: 0.75 kW
RMS: 343.34 mV/m @1km
Towers: 1
Aucs: 0

**Exhibit 15.3 - Foreign
Region 2 Present
Allocation Study
Page 1 of 2**

0.5 mV/m
0.025 mV/m

WWBC.L

CMCO

CMEM

CMHM

CMKR



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Scale 1:10,000,000

0 140 280 420 km

Exhibit 15.3

Present Region 2 Allocation Study

AM Daytime Study

Reference Station:

Call: WWBC.L Freq: 1510 kHz COCOA, FL, US
Lat: 28-21-12 N Power: 0.75 kW
Lng: 080-46-45 W Theo RMS: 343.34 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	143.7	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
CMCO	1510	SN ANTONIO B		630.1	195.6	184.46	343.70
CMEM	1500	SANTA CLARA		664.7	173.0	574.17	574.17
CMHM	1510	CAMAGUEY 1		829.6	159.8	502.02	624.10
CMKR	1500	HOLGUIN 1		946.6	152.1	765.76	765.76

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

WWBC.P
Proposed Augmented Operation
Freq: 1510 kHz
Class: D
Latitude: 28-21-12 N
Longitude: 080-46-45 W
Power: 50 kW
RMS: 2294.35 mV/m @1km
Towers: 2
Augs: 2

Exhibit 15.4 - Foreign
Region 2 Proposed
Allocation Study
Page 1 of 2

0.5 mV/m

0.025 mV/m

WWBC.P

CMCO

CMEM

CMHM

CMKR



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Scale 1:10,000,000

0 140 280 420 km

Exhibit 15.4

Proposed Region 2 Allocation Study

AM Daytime Study

Reference Station:

Call: WWBC.P Freq: 1510 kHz COCOA, FL, US
 Lat: 28-21-12 N Power: 50.0 kW
 Lng: 080-46-45 W Theo RMS: 2294.35 mV/m @ 1km
 # of Augmentations: 2

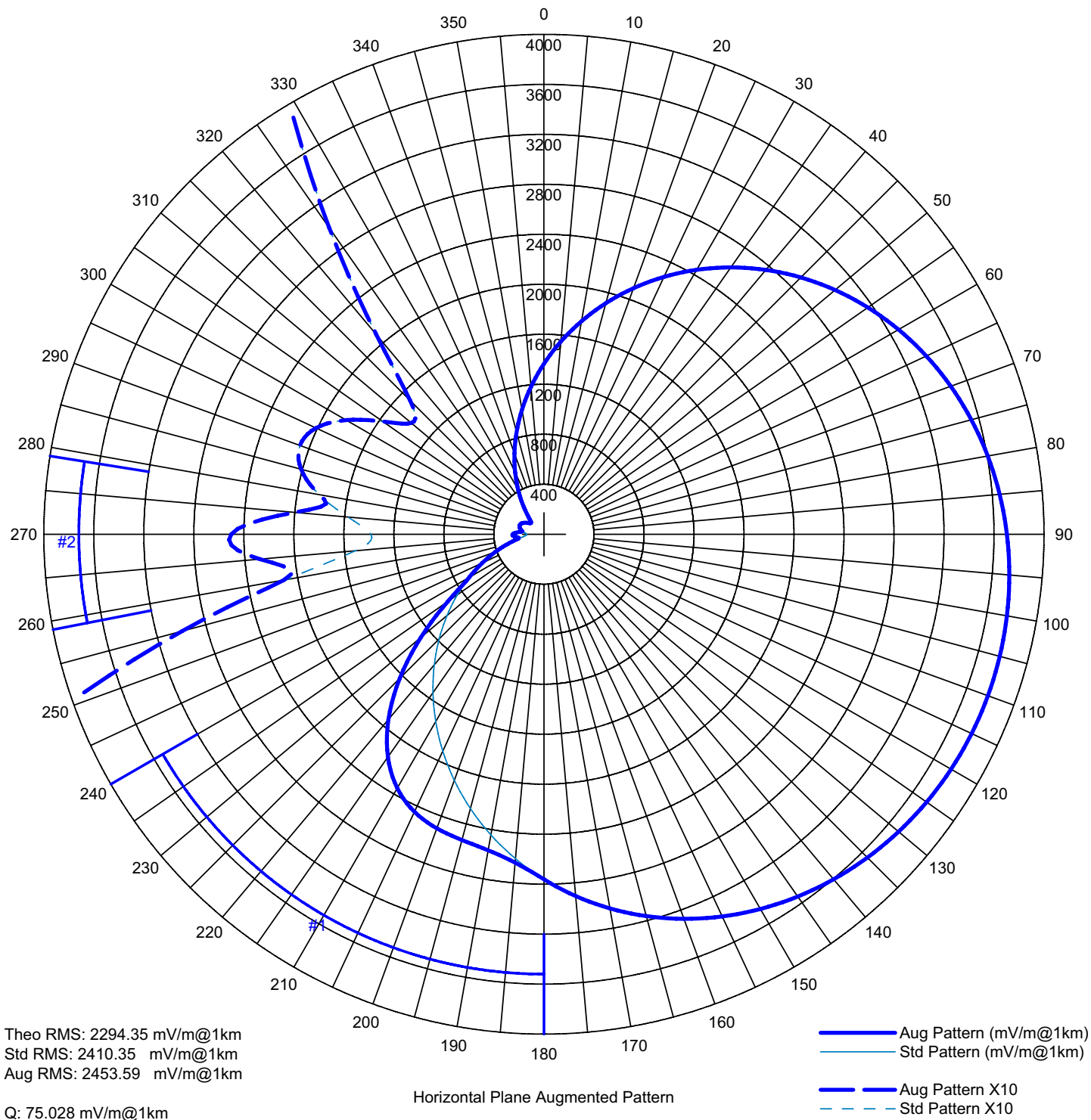
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.052	124.0	0.0	0.0	143.7	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	60.0	110.0	80.0	0	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
CMCO	1510	SN ANTONIO B		630.1	195.6	-17888.00*	197.83
CMHM	1510	CAMAGUEY 1		829.6	159.8	-2618.00*	250.86
CMEM	1500	SANTA CLARA		664.7	173.0	502.23	502.23
CMKR	1500	HOLGUIN 1		946.6	152.1	503.93	503.93

* Contour overlaps with CMCO and CMHM occur entirely over water and may therefore be disregarded. The applicant would also like to make note this augmentation application affects only the bearings between 180.0°T to 230.0°T and 259.0°T to 279.0°T. No international concerns will be affected over these arcs which have not already been granted under BP-20040109AAO

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Exhibit 15.5 - Polar Plot of Proposed Daytime Directional Augmented Pattern



											Call: WWBC.Pmc Freq: 1510 kHz COCOA, FL, US Lat: 28-21-12 N Lng: 080-46-45 W Power: 50.0 kW Theo RMS: 2294.35 mV/m @ 1km # of Augmentations: 2 Munn-Reese, Inc. Broadcast Engineering Consultants Coldwater, MI 49036
#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)	
--	-----	-----	-----	-----	-----	-----	--	-----	-----	-----	
1	1.052	124.0	0.0	0.0	143.7	0	1	210.00	2346.12	60.0	
2	1.000	0.0	60.0	110.0	80.0	0	2	269.00	251.88	20.0	

Exhibit 15.6

Tabulation of Proposed Daytime Directional Augmented Pattern

AM Radiation Report

Call: WWBC.Pmc
Freq: 1510 kHz
COCOA, FL, US
Lat: 28-21-12 N
Lng: 080-46-45 W
Power: 50.0 kW
Theo RMS: 2294.35 mV/m @ 1km
of Augmentations: 2

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.052	124.0	0.0	0.0	143.7	0	0	0.0	0.0	0.0	0.0
2	1.000	0.0	60.0	110.0	80.0	0	0	0.0	0.0	0.0	0.0

Augmented Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	1363.92	120.0	3760.48	240.0	688.81
5.0	1546.54	125.0	3736.69	245.0	544.01
10.0	1730.64	130.0	3703.02	250.0	413.21
15.0	1914.23	135.0	3659.17	255.0	299.60
20.0	2095.36	140.0	3604.78	260.0	211.34
25.0	2272.22	145.0	3539.47	265.0	228.13
30.0	2443.12	150.0	3462.91	270.0	250.15
35.0	2606.56	155.0	3374.82	275.0	200.25
40.0	2761.27	160.0	3275.04	280.0	182.64
45.0	2906.17	165.0	3163.53	285.0	201.08
50.0	3040.46	170.0	3040.46	290.0	207.63
55.0	3163.53	175.0	2906.17	295.0	201.08
60.0	3275.04	180.0	2761.27	300.0	182.64
65.0	3374.82	185.0	2638.61	305.0	157.25
70.0	3462.91	190.0	2568.29	310.0	138.46
75.0	3539.47	195.0	2533.29	315.0	151.40
80.0	3604.78	200.0	2504.48	320.0	208.75
85.0	3659.17	205.0	2450.58	325.0	299.60
90.0	3703.02	210.0	2346.12	330.0	413.21
95.0	3736.69	215.0	2175.51	335.0	544.01
100.0	3760.48	220.0	1934.46	340.0	688.81
105.0	3774.66	225.0	1630.45	345.0	845.25
110.0	3779.36	230.0	1284.49	350.0	1011.25
115.0	3774.66	235.0	939.43	355.0	1184.81

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036