

KHANNA & GULL, Inc. – CONSULTING ENGINEERS
Radio – Television

NIGHTTIME ALLOCATION STUDIES
WLIE, ISLIP, NEW YORK
540 kHz – 0.175 kW N/4.3 kW D – DA-D

*Exhibit 16 - Form 301, Section III-A AM Engineering
Technical Specifications*

Engineering Exhibit of WLIE, Islip, New York

NIGHTTIME RSS LIMITS TO PERTINENT STATIONS
FROM THE PROPOSED 0.175 kW SECONDARY NIGHTTIME OPERATION OF
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NOVEMBER 2004

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Night Allocation Protection Report

Call: WLIE
 Freq: 540 kHz
 ISLIP, NY, US
 Lat: 40-45-11 N
 Lng: 073-12-50 W
 Power: 0.175 kW
 Theo RMS: 287.20 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	62.3	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WXNH	US	NH	JAFFREY	23.54	28.87	42.57	231.86	4.78	102.99	102.64	0.35
50% = 7.819, 25% = 10.028; WLIE=4.78 CBEF/A=4.76 XEWA/A=3.95 WGDP_cp=3.76 CBGA-1/A=3.41 WFLF=2.67											
CBT/	(0)	CA	NF GRAND FALLS	47.55	2.58	2.58	17.43	0.50	143.43S	120.00	23.44
CBT/	(5)	CA	NF GRAND FALLS	46.82	2.42	2.42	16.57	0.50	150.92S	120.02	30.90
CBT/	(10)	CA	NF GRAND FALLS	46.59	2.29	2.29	15.89	0.50	157.35S	120.03	37.32
CBT/	(15)	CA	NF GRAND FALLS	46.69	2.20	2.20	15.43	0.50	162.05S	120.04	42.01
CBT/	(20)	CA	NF GRAND FALLS	47.71	2.28	2.28	15.84	0.50	157.79S	120.03	37.77
CBT/	(25)	CA	NF GRAND FALLS	48.51	2.36	2.36	16.25	0.50	153.83S	120.02	33.82
CBT/	(30)	CA	NF GRAND FALLS	49.06	2.41	2.41	16.53	0.50	151.23S	120.02	31.22
CBT/	(35)	CA	NF GRAND FALLS	49.23	2.37	2.37	16.28	0.50	153.55S	120.02	33.54
CBT/	(40)	CA	NF GRAND FALLS	49.41	2.31	2.31	16.00	0.50	156.23S	120.03	36.20
CBT/	(45)	CA	NF GRAND FALLS	49.94	2.44	2.44	16.65	0.50	150.13S	120.02	30.11
CBT/	(50)	CA	NF GRAND FALLS	50.16	2.43	2.43	16.60	0.50	150.63S	120.02	30.61
CBT/	(55)	CA	NF GRAND FALLS	50.38	2.42	2.42	16.56	0.50	150.98S	120.02	30.96

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Call Letters		Ct St City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
CBT/	(60)	CA NF GRAND FALLS	50.61	2.41	2.41	16.54	0.50	151.16S	120.02	31.14
CBT/	(65)	CA NF GRAND FALLS	50.83	2.41	2.41	16.54	0.50	151.18S	120.02	31.16
CBT/	(70)	CA NF GRAND FALLS	51.06	2.42	2.42	16.55	0.50	151.03S	120.02	31.02
CBT/	(75)	CA NF GRAND FALLS	51.28	2.42	2.42	16.59	0.50	150.73S	120.02	30.71
CBT/	(80)	CA NF GRAND FALLS	51.50	2.43	2.43	16.64	0.50	150.26S	120.02	30.24
CBT/	(85)	CA NF GRAND FALLS	51.72	2.45	2.45	16.71	0.50	149.64S	120.02	29.62
CBT/	(90)	CA NF GRAND FALLS	51.93	2.46	2.46	16.79	0.50	148.86S	120.01	28.86
CBT/	(95)	CA NF GRAND FALLS	52.13	2.48	2.48	16.90	0.50	147.95S	120.01	27.94
CBT/	(100)	CA NF GRAND FALLS	52.32	2.50	2.50	17.02	0.50	146.91S	120.01	26.90
CBT/	(105)	CA NF GRAND FALLS	52.51	2.53	2.53	17.15	0.50	145.74S	120.01	25.73
CBT/	(110)	CA NF GRAND FALLS	52.68	2.55	2.55	17.31	0.50	144.46S	120.00	24.46
CBT/	(115)	CA NF GRAND FALLS	52.83	2.58	2.58	17.47	0.50	143.08S	120.00	23.08
CBT/	(120)	CA NF GRAND FALLS	52.97	2.62	2.62	17.66	0.50	141.56S	120.00	21.57
CBT/	(125)	CA NF GRAND FALLS	53.10	2.65	2.65	17.86	0.50	139.95S	119.98	19.97
CBT/	(130)	CA NF GRAND FALLS	53.21	2.69	2.69	18.08	0.50	138.27S	119.98	18.29
CBT/	(135)	CA NF GRAND FALLS	53.30	2.72	2.72	18.31	0.50	136.55S	119.98	16.56
CBT/	(140)	CA NF GRAND FALLS	53.37	2.76	2.76	18.55	0.50	134.79S	119.97	14.81
CBT/	(145)	CA NF GRAND FALLS	53.43	2.80	2.80	18.80	0.50	133.01S	119.97	13.03
CBT/	(150)	CA NF GRAND FALLS	53.46	2.85	2.85	19.05	0.50	131.22S	119.97	11.25
CBT/	(155)	CA NF GRAND FALLS	53.48	2.89	2.89	19.31	0.50	129.45S	119.96	9.49
CBT/	(160)	CA NF GRAND FALLS	53.47	2.93	2.93	19.59	0.50	127.65S	119.96	7.69
CBT/	(165)	CA NF GRAND FALLS	53.44	2.97	2.97	19.86	0.50	125.87S	119.95	5.92
CBT/	(170)	CA NF GRAND FALLS	53.39	3.01	3.01	20.14	0.50	124.14S	119.95	4.19
CBK/A	(30)	CA SK WATROUS	330.94	0.00	0.00	4.97	0.50	502.63S	120.14	382.48
CBK/A	(35)	CA SK WATROUS	331.04	0.00	0.00	5.48	0.50	456.59S	120.14	336.45
CBK/A	(40)	CA SK WATROUS	330.96	0.00	0.00	6.10	0.50	409.85S	120.14	289.71
CBK/A	(45)	CA SK WATROUS	330.68	0.00	0.00	6.71	0.50	372.44S	120.14	252.30
CBK/A	(50)	CA SK WATROUS	330.16	0.00	0.00	7.42	0.50	337.14S	120.14	216.99
CBK/A	(55)	CA SK WATROUS	329.40	0.16	0.16	8.32	0.50	300.55S	120.14	180.41

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Call Letters	Ct St City	Azi (deg)	Ang Low (deg)	Ang High (deg)	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
CBK/A (60)	CA SK WATROUS	328.37	0.56	0.56	9.29	0.50	269.21S	120.14	149.07
CBK/A (65)	CA SK WATROUS	327.04	0.95	0.95	10.38	0.50	240.92S	120.12	120.80
CBK/A (70)	CA SK WATROUS	325.41	1.34	1.34	11.75	0.50	212.81S	120.11	92.70
CBK/A (75)	CA SK WATROUS	323.45	1.70	1.70	13.20	0.50	189.46S	120.08	69.38
CBK/A (80)	CA SK WATROUS	321.19	2.03	2.03	14.65	0.50	170.69S	120.06	50.64
CBK/A (85)	CA SK WATROUS	318.62	2.32	2.32	16.05	0.50	155.78S	120.03	35.75
CBK/A (90)	CA SK WATROUS	315.79	2.56	2.56	17.34	0.50	144.15S	120.00	24.15
CBK/A (95)	CA SK WATROUS	312.74	2.73	2.73	18.36	0.50	136.14S	119.98	16.16
CBK/A (100)	CA SK WATROUS	309.54	2.83	2.83	18.97	0.50	131.81S	119.97	11.83
CBK/A (105)	CA SK WATROUS	306.29	2.85	2.85	19.08	0.50	131.00S	119.96	11.05
CBK/A (110)	CA SK WATROUS	304.82	0.96	0.96	10.40	0.81	387.26s	120.12	267.14
CBK/A (115)	CA SK WATROUS	303.79	0.39	0.39	8.86	0.91	512.74s	120.14	392.60
CBK/A (120)	CA SK WATROUS	303.10	0.00	0.00	7.90	0.97	613.99s	120.14	493.85
CBK/A (125)	CA SK WATROUS	302.61	0.00	0.00	7.20	1.02	709.37s	120.14	589.23
CBK/A (130)	CA SK WATROUS	302.27	0.00	0.00	6.76	1.06	786.12s	120.14	665.97
CBK/A (135)	CA SK WATROUS	302.00	0.00	0.00	6.45	1.13	875.37g	120.14	755.23
CBK/A (140)	CA SK WATROUS	301.78	0.00	0.00	6.14	1.47	1196.98g	120.14	1076.83
CBK/A (145)	CA SK WATROUS	301.60	0.00	0.00	5.86	1.78	1522.75g	120.14	1402.60
CBK/A (150)	CA SK WATROUS	301.45	0.00	0.00	5.63	2.04	1810.28g	120.14	1690.14
CBK/A (155)	CA SK WATROUS	301.32	0.00	0.00	5.44	2.27	2083.61g	120.14	1963.47
CBK/A (160)	CA SK WATROUS	301.20	0.00	0.00	5.27	2.41	2288.34g	120.14	2168.19
CBK/A (165)	CA SK WATROUS	301.10	0.00	0.00	5.11	2.48	2425.58g	120.14	2305.44
CBK/A (170)	CA SK WATROUS	301.00	0.00	0.00	4.99	2.51	2516.60g	120.14	2396.45
CBK/A (175)	CA SK WATROUS	300.92	0.00	0.00	4.87	2.57	2639.74g	120.14	2519.59
CBK/A (180)	CA SK WATROUS	300.84	0.00	0.00	4.75	2.59	2725.38g	120.14	2605.23
CBK/A (185)	CA SK WATROUS	300.77	0.00	0.00	4.64	2.57	2770.06g	120.14	2649.91
CBK/A (190)	CA SK WATROUS	300.69	0.00	0.00	4.53	2.51	2770.05g	120.14	2649.90
CBK/A (195)	CA SK WATROUS	300.63	0.00	0.00	4.42	2.41	2729.47g	120.14	2609.32
CBK/A (200)	CA SK WATROUS	300.56	0.00	0.00	4.31	2.28	2648.70g	120.14	2528.55
CBK/A (205)	CA SK WATROUS	300.49	0.00	0.00	4.20	2.12	2520.69g	120.14	2400.55

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WGDP_cp	US	MD	DAMASCUS	245.89	20.02	31.48	158.00	4.10	129.75	111.52	18.23
50% = 13.538, 25% = 16.4; WWCS=11.80 WGDP=6.63 XEWA/A=6.28 WXNH=5.32 WETC=4.24											
WWCS	US	PA	CANONSBURG	267.27	12.35	20.67	85.47	2.72	159.39	116.83	42.56
50% = 9.459, 25% = 10.899; XEWA/A=6.85 CBEF/A=6.52 WGDP=3.33 WXNH=3.23 WETC=2.79											
CBEF/A	CA	ON	WINDSOR	283.91	11.00	11.00	82.46	3.08	186.64	117.49	69.15
50% = 6.156, 25% = 7.102; CBK/A=4.74 XEWA/A=3.92 WGDP=2.45 CBGA-1/A=1.85 WRRD=1.76											
WGDP	US	MD	POCOMOKE CITY	214.74	20.86	32.61	167.80	7.39	220.22	110.75	109.46
50% = 29.419, 25% = 30.333; WGDP_cp=29.42 WWCS=7.39											
WETC	US	NC	WENDELL-ZEBULON	221.62	9.89	17.04	69.18	3.81	275.63	117.99	157.64
50% = 13.373, 25% = 15.254; XEWA/A=8.08 WFLF=8.06 WWCS=6.97 WGDP=4.69 WGDP_cp=4.08 WDAK=3.90											