

**DELAWDER COMMUNICATIONS, INC.**

P.O. Box 1095  
Ashburn, Virginia 20146-1095  
(703) 299-9222

**ENGINEERING REPORT**

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**WDVS-LP, Miami, FL, Channel 266L Site-move minor**

**ENGINEERING STATEMENT**

All required protections are met with the exception of protection to WLYF, Miami, FL 268C1 and WHYI-FM, Fort Lauderdale, FL 264C0. WLYF and WHYI-FM are protected, as discussed below.

**PROTECTION TO WLYF AND WHYI-FM**

WLYF 268C1 and WHYI-FM 264C0 are second adjacent-channel stations to the proposed channel 266L facility. The 60 dBu F50,50 service contour of both WLYF and WHYI-FM extends beyond the 266L transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to WLYF or WHYI-FM.

The F50,50 signal strength from WLYF at the proposed 266L transmitter site is greater than 85 dBu (the “desired” signal of WLYF). The F50,50 signal strength from WHYI-FM at the proposed 266L transmitter site is greater than 86.5 dBu (the “desired” signal of WHYI-FM). The second/third adjacent-channel protection is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to WLYF or WHYI-FM is a 266L signal of greater than or equal to 125 dBu.

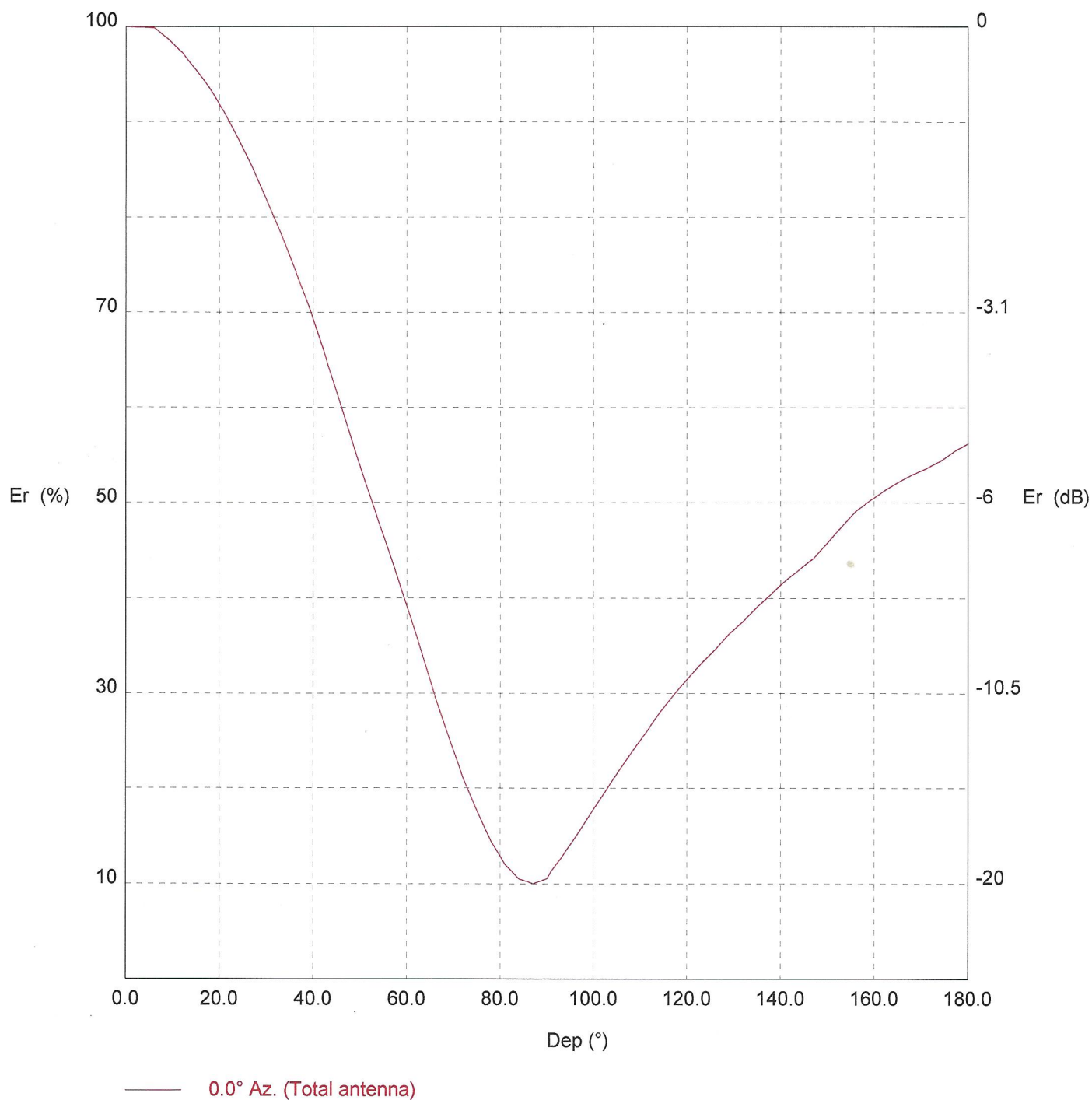
Attached is a vertical plane pattern of the proposed Nicom BKG-77 one-bay antenna. Also attached is a table with the results of a Section 74.1204 analysis (using the FCC-requested spreadsheet). The centerline of the antenna system is 4 meters above the rooftop of the building, and is 7 meters above the top floor of the building. From the tabulation, the possible 125 dBu contours extends no closer than 2.04 meters above the top floor of the building. Therefore, WLYF and WHYI-FM are adequately protected by the proposed facility.

TX station:

Site name:

Frequency: 100.00 MHz

## Vertical diagram



TX station:

Site name:

Frequency: 100.00 MHz

## Vertical diagram at an azimuth of 0° degrees

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	373.6	60.0	39.1	57.2	120.0	31.5	37.0
1.0	100.0	373.5	61.0	37.6	52.8	121.0	32.0	38.3
2.0	100.0	373.4	62.0	36.1	48.6	122.0	32.6	39.6
3.0	99.9	373.3	63.0	34.5	44.6	123.0	33.1	41.0
4.0	99.9	373.1	64.0	32.9	40.5	124.0	33.6	42.2
5.0	99.9	372.9	65.0	31.3	36.6	125.0	34.1	43.5
6.0	99.9	372.8	66.0	29.7	33.0	126.0	34.6	44.7
7.0	99.5	369.9	67.0	28.2	29.8	127.0	35.2	46.2
8.0	99.1	367.0	68.0	26.8	26.8	128.0	35.7	47.6
9.0	98.7	364.1	69.0	25.3	23.9	129.0	36.2	49.1
10.0	98.2	360.5	70.0	23.9	21.3	130.0	36.7	50.3
11.0	97.7	356.9	71.0	22.5	18.9	131.0	37.1	51.5
12.0	97.2	353.3	72.0	21.1	16.6	132.0	37.6	52.7
13.0	96.6	348.9	73.0	19.9	14.8	133.0	38.1	54.1
14.0	96.0	344.5	74.0	18.8	13.2	134.0	38.6	55.6
15.0	95.4	340.1	75.0	17.6	11.6	135.0	39.1	57.0
16.0	94.7	335.4	76.0	16.6	10.2	136.0	39.5	58.4
17.0	94.1	330.8	77.0	15.5	9.0	137.0	40.0	59.7
18.0	93.4	326.1	78.0	14.5	7.8	138.0	40.4	61.1
19.0	92.6	320.4	79.0	13.7	7.0	139.0	40.9	62.5
20.0	91.8	314.7	80.0	12.9	6.2	140.0	41.4	63.9
21.0	91.0	309.1	81.0	12.0	5.4	141.0	41.8	65.3
22.0	90.0	302.7	82.0	11.5	5.0	142.0	42.2	66.5
23.0	89.1	296.5	83.0	11.0	4.5	143.0	42.6	67.8
24.0	88.1	290.3	84.0	10.5	4.1	144.0	43.0	69.0
25.0	87.2	283.8	85.0	10.3	4.0	145.0	43.4	70.3
26.0	86.2	277.4	86.0	10.2	3.9	146.0	43.8	71.6
27.0	85.2	271.1	87.0	10.0	3.7	147.0	44.1	72.8
28.0	84.0	263.9	88.0	10.2	3.9	148.0	44.7	74.7
29.0	82.9	256.8	89.0	10.4	4.0	149.0	45.3	76.5
30.0	81.8	249.8	90.0	10.5	4.1	150.0	45.8	78.4
31.0	80.6	242.9	91.0	11.4	4.8	151.0	46.4	80.3
32.0	79.5	236.1	92.0	12.0	5.4	152.0	46.9	82.3
33.0	78.3	229.3	93.0	12.7	6.0	153.0	47.5	84.3
34.0	77.1	222.0	94.0	13.4	6.7	154.0	48.0	86.2
35.0	75.8	214.7	95.0	14.1	7.4	155.0	48.6	88.2
36.0	74.5	207.6	96.0	14.8	8.2	156.0	49.1	90.2
37.0	73.2	200.4	97.0	15.6	9.1	157.0	49.5	91.5
38.0	71.9	193.3	98.0	16.4	10.0	158.0	49.8	92.8
39.0	70.6	186.3	99.0	17.1	11.0	159.0	50.2	94.1
40.0	69.1	178.6	100.0	17.9	11.9	160.0	50.5	95.4
41.0	67.6	170.9	101.0	18.6	12.9	161.0	50.9	96.8
42.0	66.1	163.5	102.0	19.3	13.9	162.0	51.2	98.1
43.0	64.6	156.0	103.0	20.1	15.0	163.0	51.5	99.2
44.0	63.1	148.7	104.0	20.8	16.2	164.0	51.8	100.4
45.0	61.6	141.6	105.0	21.5	17.3	165.0	52.1	101.6
46.0	60.0	134.4	106.0	22.3	18.5	166.0	52.4	102.7
47.0	58.4	127.5	107.0	23.0	19.7	167.0	52.7	103.7
48.0	56.8	120.7	108.0	23.7	21.0	168.0	53.0	104.8
49.0	55.3	114.4	109.0	24.4	22.2	169.0	53.2	105.7
50.0	53.8	108.2	110.0	25.1	23.5	170.0	53.4	106.5
51.0	52.3	102.2	111.0	25.7	24.8	171.0	53.6	107.4
52.0	50.8	96.6	112.0	26.5	26.2	172.0	53.9	108.4
53.0	49.4	91.1	113.0	27.2	27.6	173.0	54.1	109.4
54.0	47.9	85.8	114.0	27.9	29.0	174.0	54.4	110.5
55.0	46.5	80.7	115.0	28.5	30.4	175.0	54.7	111.9
56.0	45.0	75.7	116.0	29.2	31.8	176.0	55.1	113.3
57.0	43.6	71.0	117.0	29.8	33.1	177.0	55.4	114.7
58.0	42.1	66.2	118.0	30.4	34.4	178.0	55.7	115.9
59.0	40.6	61.6	119.0	30.9	35.7	179.0	56.0	117.0

74.1204(d) Showing -- Or equivalent LPFM Showing

Miami, FL Channel 266L

ERP (kw) 0.008  
 Height of Antenna above Top Floor (m) 7  
 Translator's IX Contour 125

Nicom BKG77 1 bay

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Top floor (m)</u>
0	1	0.0080	11.1569	7.000
5	0.999	0.0080	11.1458	6.029
10	0.982	0.0077	10.9561	5.097
15	0.954	0.0073	10.6437	4.245
20	0.918	0.0067	10.2421	3.497
25	0.872	0.0061	9.7288	2.888
30	0.818	0.0054	9.1264	2.437
35	0.758	0.0046	8.4570	2.149
40	0.691	0.0038	7.7094	2.044
45	0.616	0.0030	6.8727	2.140
50	0.538	0.0023	6.0024	2.402
55	0.465	0.0017	5.1880	2.750
60	0.391	0.0012	4.3624	3.222
65	0.313	0.0008	3.4921	3.835
70	0.239	0.0005	2.6665	4.494
75	0.176	0.0002	1.9636	5.103
80	0.129	0.0001	1.4392	5.583
85	0.103	0.0001	1.1492	5.855
90	0.105	0.0001	1.1715	5.829

**Note: Input the ERP, Height of the antenna above Tpo Floor, the Calculated Translator IX contour, and the specified Antenna Relative Field P**