

E-11 TECHNICAL REPORT

This technical report has been developed in support of an application for a new FM translator for Owensboro, KY on channel 263 to rebroadcast the signal of WBIO(FM) on channel 234 at Philpot, KY. The data for all terrain utilized in this report and application exhibits were obtained from the V-Soft INTERDLG computer program utilizing the V-SOFT thirty (30) second terrain database. The proposed service (50,50) and relevant (50,10) interfering contours were calculated utilizing the same program.

Allocation exhibits are provided as required by FCC form 349 as follows:

E-10 Plot demonstrating that the proposed 263D 60 dBu contour is contained within the primary station's (WBIO) 60 dBu contour.

E-11 Technical discussion

E-12A Allocation study.

E-12B Clearance to WVVR

E-12C DA pattern

The proposed directional antenna is a composite utilizing two Scala CA-5FMCP/HRM antennas skewed 80 degrees. The proposed pattern was developed with Scala provided software.

The RF contribution of the proposed translator was calculated to be 2.5 microwatts/cm² at 82 meters AGL. This is well below the 5% of maximum (10 microwatts/cm²) threshold for exclusion. The formula used for the calculation is:

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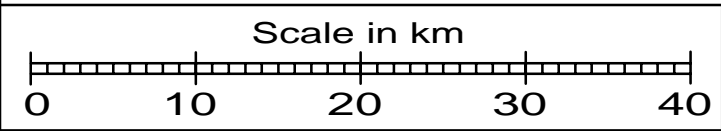
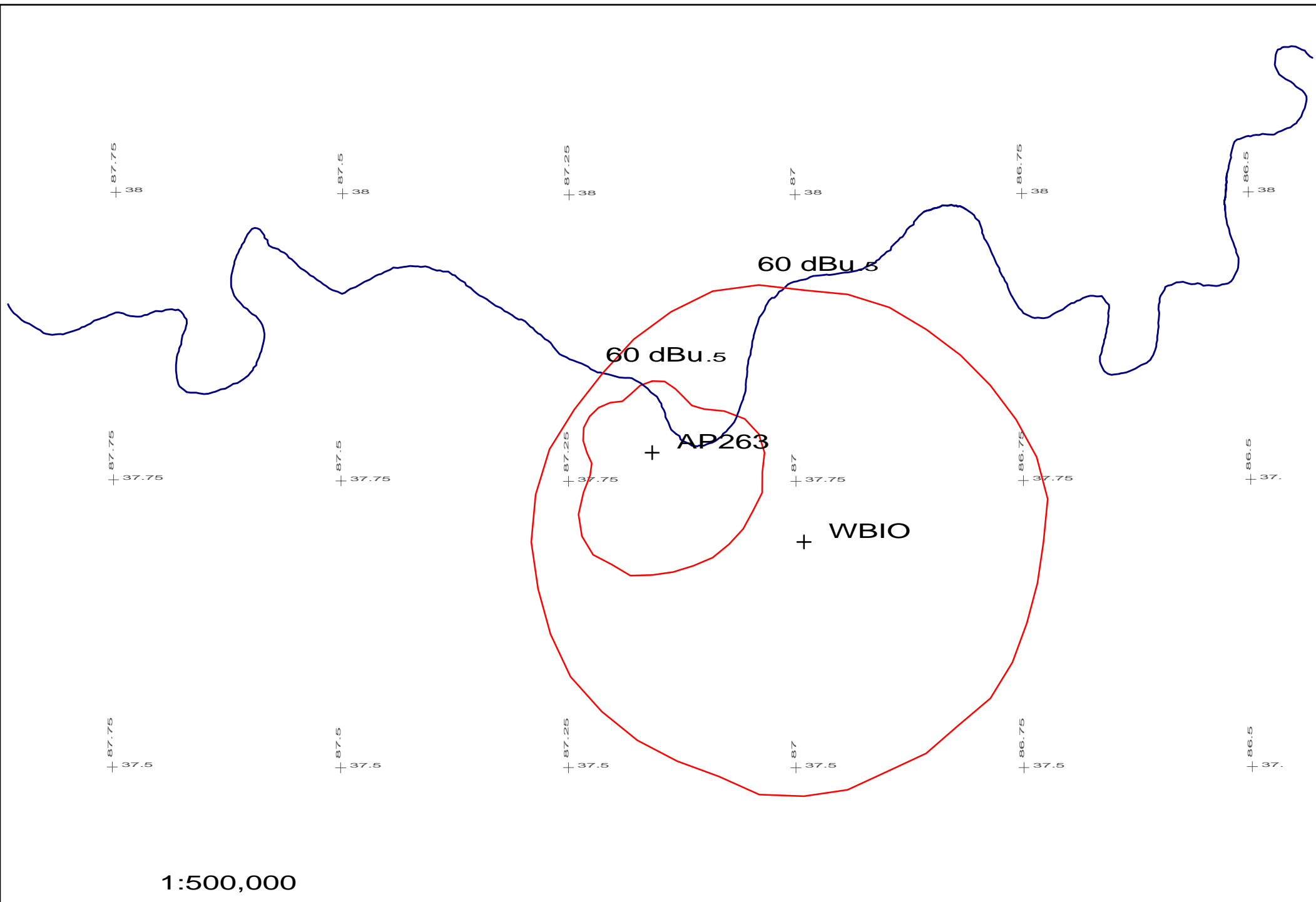
$$S = \frac{(.64)(1.64)(ERP\ H+V\ in\ watts)(1000)}{\pi \times D(cm)^2}$$

It is concluded that the proposed Owensboro, KY translator complies with
Commission rules and policies.



Charles M. Anderson August 27, 2003

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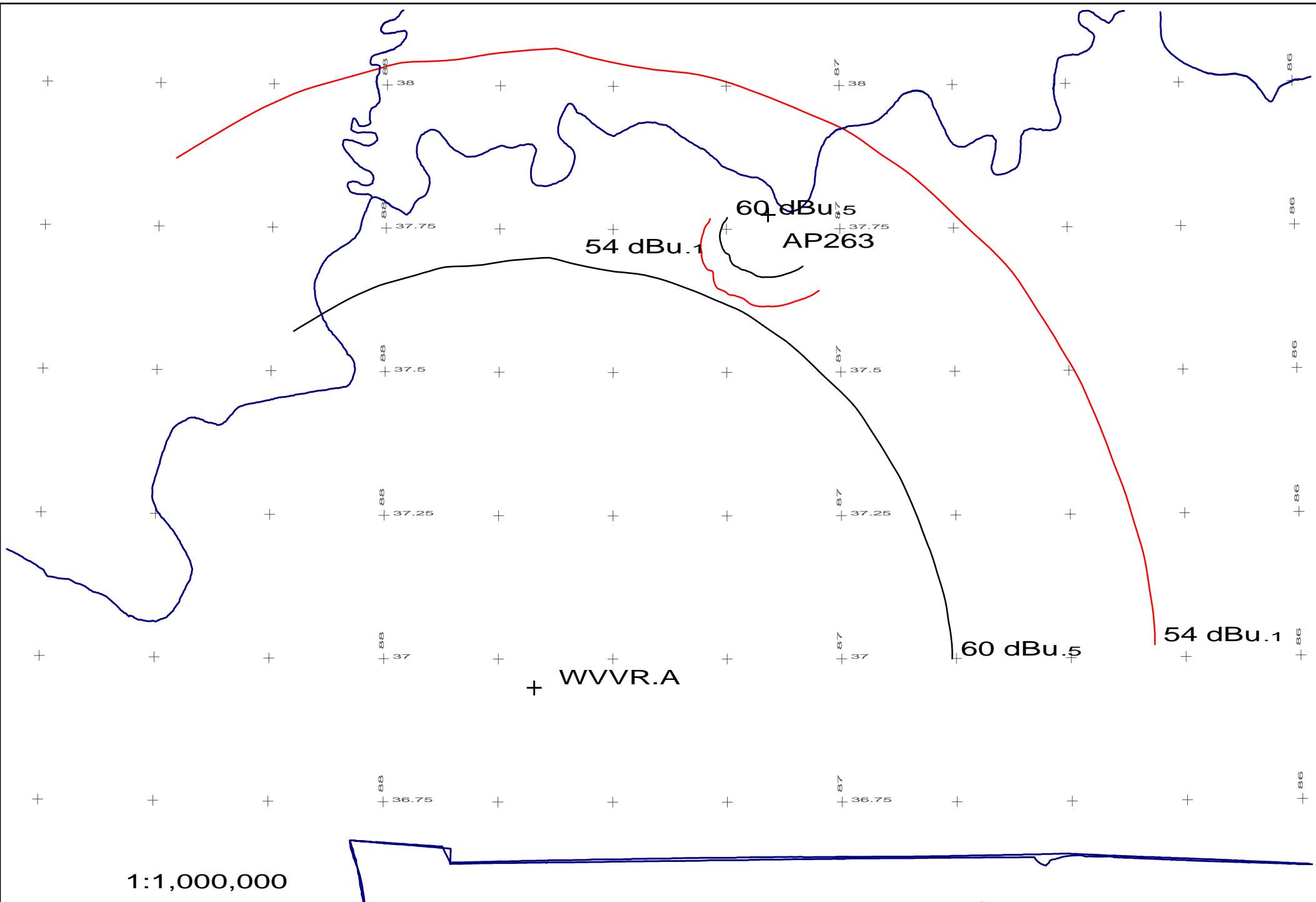


AP263 263D .25kW 206M AMSL
N. Lat. 37 46 30 W. Lng. 87 09 29

E-10 OWENSBO
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E-12A OWENSBORO

REFERENCE		CH# 263D - 100.5 MHz, Pwr= 0.25 kW, HAAT=92.1 M, COR= 206 M							DISPLAY DATES	
37 46 30 N		Average Protected F(50-50)= 12.36 km							DATA 08-22-03	
87 09 29 W		Ave. F(50-10) 40 dBu= 42.5 54 dBu= 18.3 80 dBu= 3.9 100 dBu= 1.1							SEARCH 08-27-03	
CH CITY	CALL	TYPE STATE	AZI. <--	DI ST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
263D Owensboro	AP263	APP DV KY	321.9 141.9	0.08 BNPFT20030312BAH	37 46 32 87 09 31	0.211 78	200 20.2	11.0 The Cromwell Group, Inc.	-43.36*	-31.09*
263A Pri nceton	WSJD	LIC ZEN IN	328.7 148.7	75.31 BLH19951027KA	38 21 11 87 36 27	0.522 90	232 18.8	14.6 Wsjd, Inc.	19.09	41.87
263A Pri nceton	WSJD. A	APP CX IN	328.7 148.7	75.31 BPH20020801AAJ	38 21 11 87 36 27	6.000 90	232 18.8	26.9 Wsjd, Inc.	-15.30	29.62
263A Pri nceton	WSJD. C	CP ZCN IN	332.2 152.2	77.37 BPH199606181A	38 23 24 87 34 23	5.719 90	234 18.7	26.6 Wsjd, Inc.	-12.47	32.04
262C Hopki nsvi lle	WVVR	LIC CN KY	206.5 26.5	102.30 BLH19900625KA	36 56 58 87 40 18	100.000 293	467 16.3	71.9 Saga Communi cations Of Tuc	-13.43	14.17
262C Hopki nsvi lle	WVVR. A	APP DCX KY	206.5 26.5	102.30 BPH20030519AEF	36 56 58 87 40 18	100.000 440	614 16.3	82.7 Saga Communi cations Of Tuc	-31.89	3.29
262C Hopki nsvi lle	ALLO	USE KY	206.5 26.5	102.30	36 56 58 87 40 18	100.000 -174	0 16.3	31.0	31.94	55.05
263A Pri nceton	ALLO	USE IN	335.4 155.4	84.96 RM	38 28 11 87 33 53	6.000 -146	0 19.0	15.8	10.86	50.20
265B1 Hunti ngburg	WBDC	LIC CN IN	25.0 205.0	53.20 BLH19940824KP	38 12 31 86 54 00	11.000 159	305 0.4	46.0 Dubois County Broadcasting	42.94	6.77
265B1 Hunti ngburg	ALLO	USE IN	25.6 205.6	55.47	38 13 30 86 53 00	25.000 -149	0 0.4	26.5	46.95	28.54
264D Henderson	AP264	APP C KY	290.5 110.5	36.19 BNPFT20030311APM	37 53 17 87 32 37	0.120 18	146 9.9	5.9 Starboard Medi a Foundation	20.79	20.36
266D Henderson	AP266	APP C KY	289.7 109.7	35.75 BNPFT20030313AEL	37 52 57 87 32 27	0.040 64	192 0.4	6.5 Indiana Communi ty Radi o Co	28.32	28.85
266C1 Russel lvi lle	ALLO	USE KY	168.4 348.4	105.41 RM9082	36 50 40 86 55 11	100.000 -184	0 1.0	31.0	90.74	73.42
262D Evansvi lle	AP262	APP C IN	301.9 121.9	45.32 BNPFT20030313AER	37 59 21 87 35 48	0.030 43	156 9.8	5.0 Indiana Communi ty Radi o Co	31.46	30.58
264D Evansvi lle	AP264	APP C IN	307.6 127.6	46.50 BNPFT20030313AEQ	38 01 45 87 34 42	0.030 47	162 9.5	5.2 Indiana Communi ty Radi o Co	32.47	31.79
261D Red Bank	AP261	APP C IN	302.1 122.1	45.09 BNPFT20030311AKC	37 59 21 87 35 37	0.010 77	190 0.4	5.1 Way-fm Medi a Group, Inc.	38.00	39.64
210C2 Madi sonvi lle	WSOFFM	LIC CN KY	211.4 31.4	54.31 BLED19920304KA	37 21 26 87 28 41	39.000 91	220 11.2	41.1 Madi sonvi lle Christi an Sch	15.0R	39.3M
260D Beaver Dam	AP260	APP C KY	149.1 329.1	48.10 BNPFT20030313AXC	37 24 12 86 52 41	0.127 20	157 1.0	6.0 Bethel Fellowshi p, Inc.	35.78	41.09
260D Beaver Dam	AP260	APP C KY	149.1 329.1	48.10 BNPFT20030820AAO	37 24 12 86 52 41	0.127 20	157 1.0	6.0 Bethel Fellowshi p, Inc.	35.78	41.09
263C2 Loui svi lle	ALLO	USE KY	73.7 253.7	150.31	38 08 31 85 30 42	50.000 -187	0 32.9	26.5	25.47	90.94
263C2 Loui svi lle	WTFXFM	LIC NCN KY	71.6 251.6	151.06 BLH19940502KF	38 11 32 85 31 17	37.000 188	367 32.2	53.6 Clear Channel Broadcasting	5.45	65.26
264C3 Brownsvi lle	ALLO	USE KY	131.1 311.1	100.74	37 10 34 86 18 08	25.000 -175	0 16.3	22.7	53.86	61.81
264C3 Brownsvi lle	WKLX	LIC NC KY	132.9 312.9	100.80 BLH20000615AEW	37 09 17 86 19 33	8.000 200	362 16.1	41.2 Charles M. Anderson	28.81	43.54
266D Provi dence	W266AB	LIC CN KY	232.6 52.6	67.28 BLFT19950602TC	37 24 23 87 45 46	0.038 63	199 0.6	6.4 Pennyrille Christi an Commun	58.00	60.27
266A New Harmony	RADD	ADD IN	302.8 122.8	87.24	38 11 49 87 59 45	6.000 -122	0 0.3	15.8	78.82	71.14



08-27-2003
InterDLG (C)

Bearing	Field Value
000	0.323
010	0.328
020	0.297
030	0.264
040	0.236
050	0.274
060	0.411
070	0.613
080	0.793
090	0.917
100	0.972
110	1.000
120	0.952
130	0.925
140	0.918
150	0.926
160	0.918
170	0.925
180	0.952
190	1.000
200	0.972
210	0.917
220	0.793
230	0.613
240	0.411
250	0.274
260	0.236
270	0.264
280	0.297
290	0.328
300	0.323
310	0.290
320	0.241
330	0.216
340	0.241
350	0.290

