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FM ALLOCATION STUDY

WDRV-FM CHANNEL 246B, 97.1 MHz

Chicago, IL

BONNEVILLE HOLDING COMPANY

February, 2004

The attached spacing study shows that the proposed operation meets the co-channel and adjacent channel spacing requirements for Class B stations as prescribed in §73.207 of the Commission's Rules, with the exception of grandfathered short-spacings to stations WLLI Joliet, IL; WWDV Zion, IL; and WLTQ Milwaukee, WI.

WLLI 244A Joliet

WDRV will continue to be 16 km short-spaced to the licensed operation of WLLI, per the terms of §73.207. However, these two stations operate as "pre 1964" grandfathered short-spaced stations. Since WDRV and WLLI operate on second-adjacent channels, per §73.213(a)(4) there is no distance separation or interference protection requirement between these two stations.

WWDV 245B Zion

WLTQ 247B Milwaukee

WDRV operates as a "pre 1964" grandfathered short-spaced station with respect to WWDV and WLTQ. The proposed WDRV facility is at the same site as that authorized by Construction Permit BPH-20010702AAQ, using the same directional envelope pattern. The only changes proposed in the present application are a reduction in antenna height, with a corresponding increase in ERP. Therefore, the existing short-spacings to WWDV and WLTQ will not be exacerbated. Furthermore, this application proposes operation with a directional antenna envelope pattern which will not cause any increased contour overlap with WWDV and WLTQ over land areas. Specifically, the table and maps included demonstrate that the distances to the WDRV 54 dBu F(50,50) and 48 dBu F(50,10) contours will not be increased along the arc between 300 and 350 degrees True, which is the direction towards the existing overlap with WWDV and WLTQ.

Thomas S. Gorton P.E.

SEARCH PARAMETERS

FM Database Date: 040210

Channel: 246B 97.1 MHz
 Latitude: 41 53 6
 Longitude: 87 37 18
 Safety Zone: 100 km
 Job Title: WDRV

Page 1

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
WKOT LIC	MARSEILLES IL	BLH-990608KC	243A 96.5	2.500 100.0	41-18-33 088-48-45	237.5	118.10 49.10	69 CLEAR
NEW-T APP	STERLING IL	BNPFT-030317FKJ	243D 96.5	0.010 144.0	41-48-22 089-39-32	267.7	169.42 0.00	0 TRANS
NEW-T APP	STERLING IL	BNPFT-030827ABZ	243D 96.5	0.010 118.0	41-52-08 089-33-49	270.0	161.22 0.00	0 TRANS
WAZY-FM LIC	LAFAYETTE IN	BLH-7632	243B 96.5	50.000 152.0	40-23-02 087-07-55	166.0	171.70 97.70	74 CLEAR
W243AJ LIC	MISHAWAKA IN	BLFT-980422TE	243D 96.5	0.040 75.0	41-41-53 086-09-20	99.2	123.62 0.00	0 TRANS
NEW-T APP	BEECHWOOD MI	BNPFT-030317HMR	243D 96.5	0.040 73.0	42-51-10 086-06-51	48.5	164.24 0.00	0 TRANS
NEW-T APP	BEECHWOOD MI	BNPFT-030827ABX	243D 96.5	0.040 DA 73.0	42-51-10 086-06-51	48.5	164.24 0.00	0 TRANS
WBHC-LP CP MOD	BENTON HARBOR MI	BMPL-030828BFT	243L1 96.5	0.100 20.0	42-06-33 086-26-30	75.3	100.89 33.89	67 CLEAR
WKLH LIC	MILWAUKEE WI	BLH-820914AI	243B 96.5	20.000 247.0	43-05-48 087-54-19	350.3	136.60 62.60	74 CLEAR
WLLI-FM LIC	JOLIET IL	BMLH-990203KC	244A 96.7	3.500 84.0	41-32-06 088-03-15	222.8	52.98 -16.02	69 SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 63 KM								
WKMQ-FM LIC	LOVES PARK IL	BLH-020823AAB	244A 96.7	2.200 DA 168.0	42-21-48 089-08-06	293.6 SS	135.95 66.95	69 CLEAR
NEW-T APP	PARK RIDGE IL	BNPFT-030829BEW	244D 96.7	0.010 60.0	42-01-26 087-51-20	308.7	24.78 0.00	0 TRANS
NEW-T APP	PARK RIDGE IL	BNPFT-030314ASZ	244D 96.7	0.080 60.0	42-01-26 087-51-20	308.7	24.78 0.00	0 TRANS
WCOE LIC	LA PORTE IN	BLH-2496	244A 96.7	3.000 81.0	41-37-55 086-45-43	111.2	76.83 7.83	69 CLOSE

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Page 2

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NEW-T APP	LAWRENCE MI	BNPFT-030815ACE	244D 96.7	0.040 84.0	42-11-44 086-03-00	74.6	134.63 0.00	0 TRANS
NEW-T APP	LAWRENCE MI	BNPFT-030314AWZ	244D 96.7	0.040 84.0	42-11-44 086-03-00	74.6	134.63 0.00	0 TRANS
WXLN LIC	MOLINE IL	BLH-4960	245B 96.9	50.000 152.0	41-20-16 090-22-46	256.1	237.77 68.77	169 CLEAR
WWDV LIC	ZION IL	BLH-870127KB	245B 96.9	50.000 148.0	42-30-36 087-53-11	342.7	72.78 -96.22	169 SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 145 KM								
WHPZ LIC	BREMEN IN	BLH-930121KA	245A 96.9	2.000 141.0	41-24-43 086-01-51	111.2	142.56 29.56	113 CLEAR
NEW-T APP	DELPHI IN	BNPFT-030314BJJ	245D 96.9	0.010 128.0	40-29-51 086-53-47	158.3	165.67 0.00	0 TRANS
NEW-T APP	FOWLER IN	BNPFT-030317FMI	245D 96.9	0.010 125.0	40-34-11 087-19-10	170.1	148.25 0.00	0 TRANS
NEW-T APP	LAFAYETTE IN	BNPFT-030317GUL	245D 96.9	0.250 117.0	40-23-24 086-51-53	158.9	177.78 0.00	0 TRANS
WLAV-FM LIC	GRAND RAPIDS MI	BLH-940822KC	245B 96.9	50.000 149.0	43-02-01 085-31-15	52.8	214.80 45.80	169 CLEAR
NEW-T APP	SHEBOYGAN WI	BNPFT-030311ASF	245D 96.9	0.040 79.0	43-45-55 087-45-59	356.8	209.21 0.00	0 TRANS
NEW-T APP	SHEBOYGAN WI	BNPFT-030814AAH	245D 96.9	0.040 79.0	43-45-55 087-45-59	356.8	209.21 0.00	0 TRANS
NEW-T APP	WATERTOWN WI	BNPFT-030317AWZ	245D 96.9	0.250 36.0	43-11-45 088-45-25	327.8	172.92 0.00	0 TRANS
NEW-T APP	WATERTOWN WI	BNPFT-030827ALP	245D 96.9	0.250 36.0	43-11-45 088-45-25	327.8	172.92 0.00	0 TRANS
WDRVaux APP	CHICAGO IL	BXPB-030702AAU	246B 97.1	0.710 403.0	41-53-56 087-37-23	355.7	1.55 0.00	0 AUX

SEARCH PARAMETERS

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Page 3

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
WDRV	CHICAGO		246B	7.900	41-53-06	0.0	0.00	241
CP	IL	BPH-010702AAQ	97.1	370.0	087-37-18		-241.00	SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 211 KM								
WDRV	CHICAGO		246B	8.400	41-53-08	48.2	0.09	241
LIC	IL	BLH-840515CP	97.1	363.0	087-37-15		-240.91	SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 211 KM								
NEW-T	CLINTON		246D	0.250	40-09-13	211.3	224.16	0
APP	IL	BNPFT-030811AGM	97.1	29.0	088-59-30		0.00	TRANS
NEW-T	CLINTON		246D	0.250	40-09-13	211.3	224.16	0
APP	IL	BNPFT-030310ABN	97.1	29.0	088-59-30		0.00	TRANS
NEW-T	LINCOLN		246D	0.060	40-08-30	217.9	243.91	0
APP	IL	BNPFT-030310AEC	97.1	67.0	089-23-07		0.00	TRANS
NEW-T	LINCOLN		246D	0.170	40-09-23	217.8	241.36	0
APP	IL	BNPFT-030314AVY	97.1	41.0	089-21-40		0.00	TRANS
NEW-T	LINCOLN		246D	0.170	40-09-23	217.8	241.36	0
APP	IL	BNPFT-030317ANP	97.1	41.0	089-21-40		0.00	TRANS
WENSaux	SHELBYVILLE		246B	2.700	39-46-03	149.4	271.90	0
CP	IN	BXPH-030527AFR	97.1	302.0	086-00-12		0.00	AUX
WENS	SHELBYVILLE		246B	23.000	39-40-06	150.9	280.49	241
LIC	IN	BLH-991028ADZ	97.1	223.0	086-01-44		39.49	CLEAR
NEW	BATTLE CREEK		246L1	0.100	42-12-51	79.1	211.01	112
CP	MI	BNPL-000828AAH	97.1	22.5	085-06-41		99.01	CLEAR
WLWZ-LP	CASSOPOLIS		246L1	0.020	41-57-14	86.2	133.41	112
LIC	MI	BLL-021213AAQ	97.1	70.8	086-00-58		21.41	CLEAR
NEW-T	COLDWATER		246D	0.120	41-56-53	87.3	216.87	0
APP	MI	BNPFT-030801COS	97.1	48.0	085-00-32		0.00	TRANS
NEW-T	COLDWATER		246D	0.120	41-56-54	87.3	216.85	0
APP	MI	BNPFT-030314AOD	97.1	48.0	085-00-33		0.00	TRANS
NEW-T	COLDWATER		246D	0.120	41-56-53	87.3	216.87	0
APP	MI	BNPFT-030801COS	97.1	48.0	085-00-32		0.00	TRANS

SEARCH PARAMETERS

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Page 4

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
NEW APP	MADISON WI	BNPL-010122AKB	246L1 97.1	0.100 24.8	43-04-22 089-17-48	314.4	190.73 78.73	112 CLEAR
WCOW-FM LIC	SPARTA WI	BLH-881215KB	246C1 97.1	100.000 179.0	43-58-06 090-51-35	312.4	351.35 81.35	270 CLEAR
NEW APP	SUN PRAIRIE WI	BNPL-010122AKY	246L1 97.1	0.100 29.3	43-10-10 089-15-38	317.3	196.19 84.19	112 CLEAR
970414 VAC	METWO RIVERS WI	-	246A 97.1	0.000 0.0	44-09-06 087-34-06	1.0	251.85 73.85	178 CLEAR
WFYR LIC	ELMWOOD IL	BLH-930812KD	247B1 97.3	23.500 103.0	40-46-22 089-44-50	235.8	216.62 71.62	145 CLEAR
NEW-T APP	CRAWFORDSVILLE IN	BNPFT-030313BDG	247D 97.3	0.040 67.0	40-03-19 086-55-57	163.9	211.31 0.00	0 TRANS
WMEE LIC	FORT WAYNE IN	BLH-890914KB	247B 97.3	26.000 210.0	41-06-42 085-11-43	112.2	220.06 51.06	169 CLEAR
WWCC-LP CP	WEST LAFAYETTE IN	BNPL-000530ABG	247L1 97.3	0.020 73.6	40-23-26 086-51-52	158.9	177.73 80.73	97 CLEAR
W247AM LIC	KALAMAZOO MI	BLFT-001208ACX	247D 97.3	0.010 126.0	42-15-19 085-40-58	74.9	165.65 0.00	0 TRANS
NEW-T APP	MADISON WI	BPFT-970827TC	247D 97.3	0.010 146.0	43-03-09 089-28-42	311.1	200.34 0.00	0 TRANS
WLTQ LIC	MILWAUKEE WI	BLH-840925DP	247B 97.3	15.500 278.0	43-06-41 087-55-38	349.7	138.53 -30.47	169 SHORT
ABSOLUTE MINIMUM 73.215 SPACING = 145 KM								
NEW-T APP	CHANNAHON IL	BNPFT-030314ATQ	248D 97.5	0.010 145.0	41-26-09 088-11-04	223.3	68.45 0.00	0 TRANS
NEW-T APP	HILLSIDE IL	BNPFT-030314AZI	248D 97.5	0.010 153.0	41-52-08 087-54-55	265.9	24.44 0.00	0 TRANS
NEW-T APP	HILLSIDE IL	BNPFT-030825AFM	248D 97.5	0.010 64.0	41-50-53 087-51-51	258.5	20.55 0.00	0 TRANS

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Page 5

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NEW-T APP	JOLIET IL	BNPFT-030312ASU	248D 97.5	0.010 84.0	41-29-52 087-56-16	211.5	50.42 0.00	0 TRANS
NEW-T APP	MANTENO IL	BNPFT-030317IBS	248D 97.5	0.010 173.0	41-18-04 087-49-35	194.8	67.06 0.00	0 TRANS
WZOK LIC	ROCKFORD IL	BLH-851008KC	248B 97.5	50.000 131.0	42-16-50 089-02-16	291.1	125.14 51.14	74 CLEAR
NEW-T APP	TINLEY PARK IL	BNPFT-030314ATN	248D 97.5	0.020 109.0	41-33-15 087-48-46	203.4	40.04 0.00	0 TRANS
NEW-T APP	WILMINGTON IL	BNPFT-030317MRO	248D 97.5	0.250 50.0	41-17-39 088-10-15	215.0	80.02 0.00	0 TRANS
NEW-T APP	CHESTERTON IN	BNPFT-030314BFU	248D 97.5	0.000 108.0	41-34-26 086-58-31	122.6	63.93 0.00	0 TRANS
NEW-T APP	CHESTERTON IN	BNPFT-030829AQX	248D 97.5	0.010 124.0	41-35-29 086-53-20	118.0	69.14 0.00	0 TRANS
NEW-T APP	HAMMOND IN	BNPFT-030317IEA	248D 97.5	0.010 125.0	41-34-44 087-32-47	169.6	34.57 0.00	0 TRANS
NEW-T APP	LOGANSPOORT IN	BNPFT-030317GSO	248D 97.5	0.250 71.0	40-45-48 086-24-22	140.5	160.86 0.00	0 TRANS
NEW-T APP	LOGANSPOORT IN	BNPFT-030829BCT	248D 97.5	0.250 26.0	40-45-17 086-21-51	139.7	163.84 0.00	0 TRANS
WYTZ LIC	BRIDGMAN MI	BLH-930402KB	248A 97.5	3.800 126.0	41-59-19 086-31-46	82.4	91.31 22.31	69 CLEAR
WSTQ LIC	STREATOR IL	BMLH-000927ABY	249A 97.7	6.000 100.0	41-10-49 088-52-06	233.4	130.20 61.20	69 CLEAR
WZOW LIC	GOSHEN IN	BLH-930406KD	249A 97.7	2.900 147.0	41-36-04 085-55-41	102.1	144.37 75.37	69 CLEAR
WLQI LIC	RENSSELAER IN	BMLH-900111KD	249A 97.7	3.300 91.0	40-58-14 087-09-10	158.8	108.86 39.86	69 CLEAR

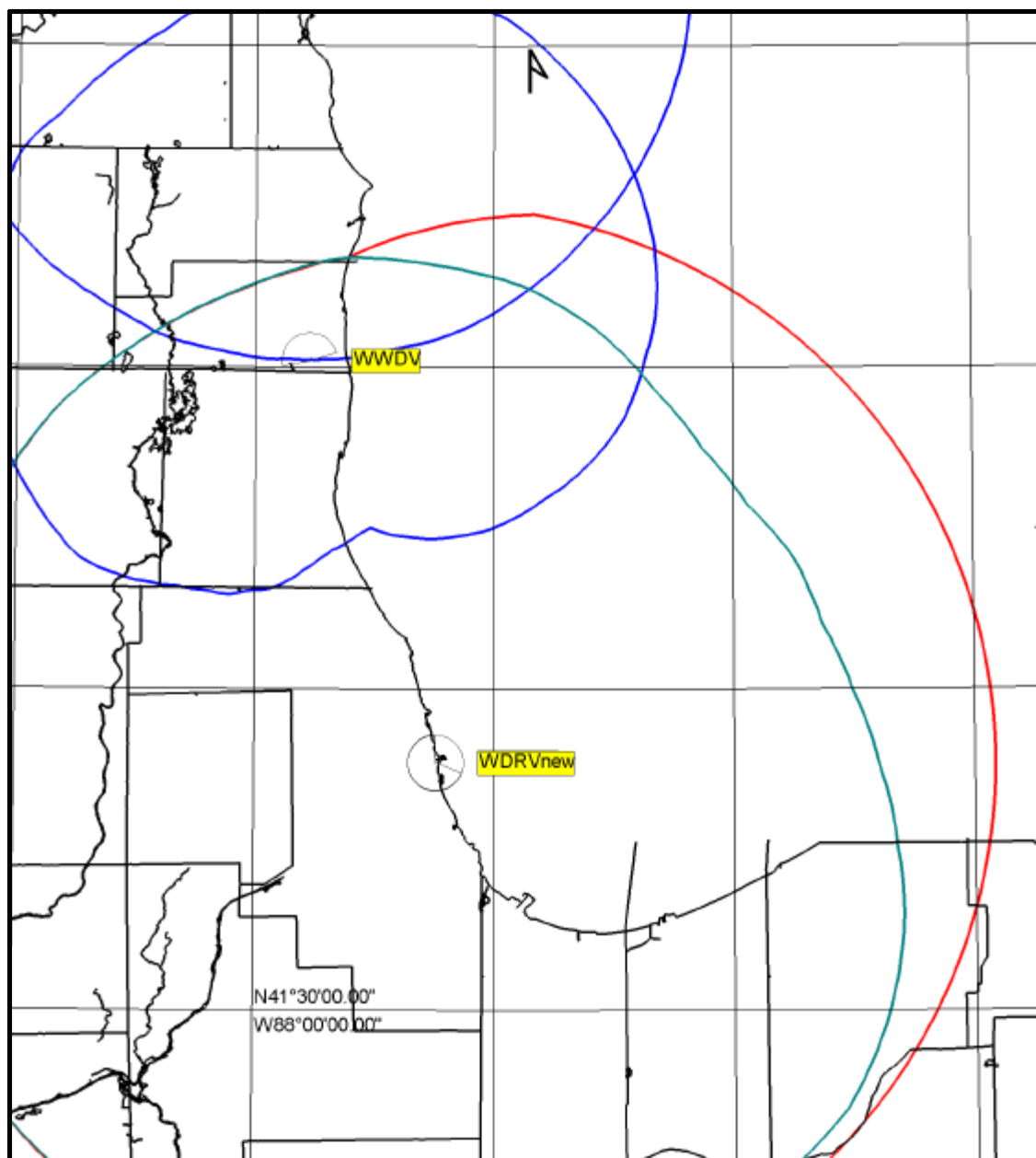
SEARCH PARAMETERS

FM Database Date: 040210

Channel: 246B 97.1 MHz
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Page 6

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
WLEY-FM LIC	AURORA IL	BLH-910827KB	300B 107.9	21.000 232.0	41-56-01 088-04-23	278.4	37.84 17.84	20 CLEAR
WLEYaux LIC	AURORA IL	BXLH-001214AJC	300B 107.9	10.500 134.0	41-51-30 087-57-16	264.0	27.79 0.00	0 AUX
NEW-T APP	WESTVILLE IN	BNPFT-030317KXG	300D 107.9	0.010 132.0	41-35-29 086-53-20	118.0	69.14 0.00	0 TRANS
NEW-T APP	WESTVILLE IN	BNPFT-030731ALT	300D 107.9	0.010 132.0	41-35-29 086-53-20	118.0	69.14 0.00	0 TRANS
NEW-T APP	WESTVILLE IN	BNPFT-030731ALT	300D 107.9	0.010 114.0	41-35-29 086-53-20	118.0	69.14 0.00	0 TRANS
NEW APP	LAKESIDE MI	BNPL-000830ABD	300L1 107.9	0.100 21.6	41-50-32 086-40-24	93.1	78.88 66.88	12 CLEAR
NEW APP	SAWYER MI	BNPL-000831AAS	300L1 107.9	0.100 18.2	41-52-05 086-36-44	91.0	83.82 71.82	12 CLEAR
NEW APP	UNION PIER MI	BNPL-000830AAZ	300L1 107.9	0.100 25.1	41-50-22 086-40-42	93.4	78.49 66.49	12 CLEAR



SIGNAL™: WDRV

Sites

Site: WDRVlic

N41°53'08.00" W87°37'15.00" 180.0 m

WDRVlic Tx.Ht.AGL: 361.0 m Total ERPd: 9.24 dBkW

Model: 1 directional-horizontal/0.0° 97.1000 MHz

Site: WDRVnew

N41°53'06.00" W87°37'18.00" 180.0 m

WDRVnew Tx.Ht.AGL: 362.0 m Total ERPd: 9.20 dBkW

Model: 1 directional-horizontal/0.0° 97.1000 MHz

Site: WLTQ

N43°06'41.00" W87°55'38.00" 189.0 m

WLTQ Tx.Ht.AGL: 302.0 m Total ERPd: 11.90 dBkW

Model: 1 omni-horizontal/0.0° 97.3000 MHz

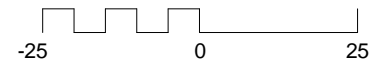
Site: WWDV

N42°30'36.00" W87°53'11.00" 223.0 m

WWDV Tx.Ht.AGL: 137.0 m Total ERPd: 17.00 dBkW

Model: 1 directional-horizontal/0.0° 96.9000 MHz

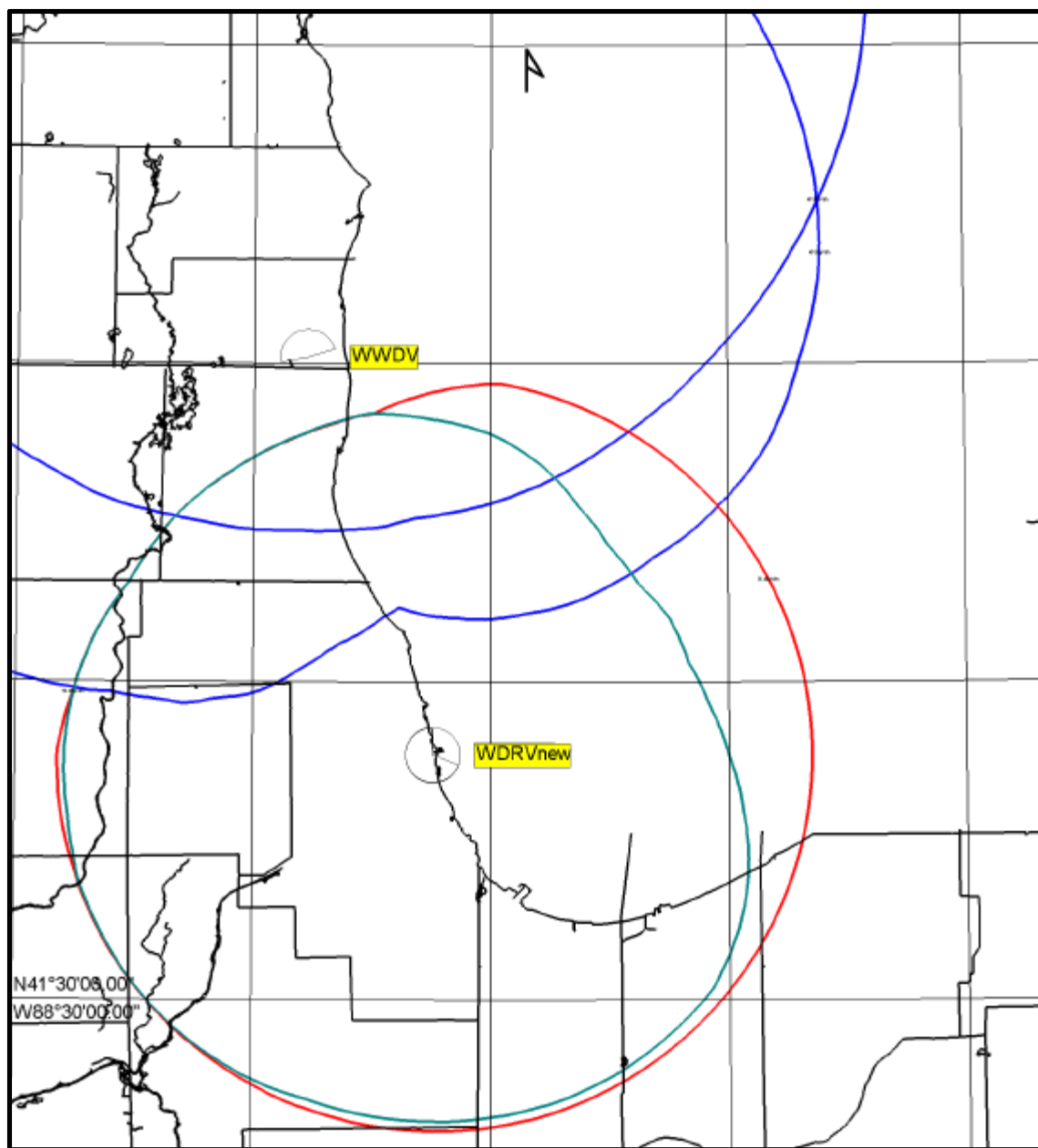
KILOMETERS



WDRV-FM Chicago

Licensed & Proposed Overlap Areas

Feb. 2004



SIGNAL™: WDRV

Sites

Site: WDRVlic

N41°53'08.00" W87°37'15.00" 180.0 m

WDRVlic Tx.Ht.AGL: 361.0 m Total ERPd: 9.24 dBkW

Model: 1 directional-horizontal/0.0° 97.1000 MHz

Site: WDRVnew

N41°53'06.00" W87°37'18.00" 180.0 m

WDRVnew Tx.Ht.AGL: 362.0 m Total ERPd: 9.20 dBkW

Model: 1 directional-horizontal/0.0° 97.1000 MHz

Site: WLTQ

N43°06'41.00" W87°55'38.00" 189.0 m

WLTQ Tx.Ht.AGL: 302.0 m Total ERPd: 11.90 dBkW

Model: 1 omni-horizontal/0.0° 97.3000 MHz

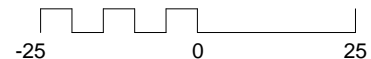
Site: WWDV

N42°30'36.00" W87°53'11.00" 223.0 m

WWDV Tx.Ht.AGL: 137.0 m Total ERPd: 17.00 dBkW

Model: 1 directional-horizontal/0.0° 96.9000 MHz

KILOMETERS



WDRV-FM Chicago

Licensed & Proposed Overlap Areas

Feb. 2004