

### Figure 3 - W35DY MINOR CHANGE APPLICATION FCC TVSTUDY SUMMARY REPORT

Proposal: W35DY-D D35 LD APP MADISON, WI  
 File number: W35DY-LD  
 Facility ID: 1006  
 Station data: User record  
 Record ID: 754  
 Country: U.S.

Build options:  
 Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	173.7 km
No	WCPX-TV	D34	DT	LIC	CHICAGO, IL	BLANK0000087607	148.9
No	W34FC-D	D34	LD	LIC	LA CROSSE, WI	BLANK0000058890	223.6
No	WWRS-TV	D34	DT	LIC	MAYVILLE, WI	BLANK0000087342	107.7
No	K35PA-D	D35	LD	LIC	MASON CITY, IA	BLANK0000195934	344.2
No	KRIN	D35	DT	LIC	WATERLOO, IA	BLEDT20050218ABQ	222.6
Yes	WGBD-DT	D35	DT	LIC	JOLIET, IL	BLANK0000235588	148.6
No	WTVP	D35	DT	LIC	PEORIA, IL	BLANK0000110583	220.5
No	WPBY-LD	D35	LD	LIC	LAFAYETTE, IN	BLANK0000058858	310.4
No	WBND-LD	D35	LD	LIC	SOUTH BEND, IN	BLANK0000086891	268.8
No	WTWO	D35	DT	LIC	TERRE HAUTE, IN	BLANK0000086897	400.8
No	WOLP-CD	D35	DC	LIC	GRAND RAPIDS, MI	BLANK0000141794	299.4
No	WOLP-CD	D35	DC	LIC	GRAND RAPIDS, MI	BLANK0000232319	299.4
No	WLUC-TV	D35	DT	LIC	MARQUETTE, MI	BLANK0000210598	429.4
No	WPBN-TV	D35	DT	LIC	TRAVERSE CITY, MI	BLANK0000087956	407.6
No	KXSH-LD	D35	LD	LIC	ROCHESTER, MN	BLANK0000179175	296.5
No	KSTP-TV	D35	DT	LIC	ST. PAUL, MN	BLANK0000218479	420.5
No	KSDK	D35	DT	LIC	ST. LOUIS, MO	BLANK0000158259	457.6
No	WNHO-LD	D35-	LD	LIC	Defiance, OH	BLANK0000086381	409.4
No	WLMB	D35	DT	CP	TOLEDO, OH	BLANK0000185769	434.5
No	W39CV-D	D35	LD	CP	MINOCQUA, WI	BLANK0000199251	369.6
No	WPDR-LD	D35	LD	LIC	TOMAH, WI	BLANK0000168881	185.0
No	WRJK-LD	D36-	LD	LIC	ARLINGTON HEIGHTS, IL	BLANK0000203027	148.6
No	WMEC	D36	DT	LIC	MACOMB, IL	BLANK0000113434	276.1
Yes	WQRF-TV	D36	DT	LIC	ROCKFORD, IL	BLANK0000107925	33.6
No	WHME-TV	D36	DT	LIC	SOUTH BEND, IN	BLANK0000216331	271.6
No	WACY-TV	D36	DT	LIC	APPLETON, WI	BLANK0000074905	218.7
No	W36FN-D	D36	LD	LIC	BARABOO, WI	BLANK0000215897	175.1
No	WMKE-CD	D36	DC	LIC	MILWAUKEE, WI	BLANK0000116313	117.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35  
 Mask: Full Service  
 Latitude: 42 35 22.30 N (NAD83)  
 Longitude: 89 10 9.10 W  
 Height AMSL: 339.3 m  
 HAAT: 0.0 m  
 Peak ERP: 2.50 kW  
 Antenna: SCA-PR-TV x2 Array 15.0 deg  
 Elev Pattn: Generic

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.995 kW	77.4 m	26.5 km
45.0	0.090	90.5	15.5
90.0	0.021	94.3	11.4
135.0	0.023	89.5	11.4
180.0	0.995	88.5	27.9
225.0	0.090	93.3	15.8
270.0	0.021	75.6	10.3
315.0	0.023	60.8	9.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 84 m

Distance to Canadian border: 497.2 km

Distance to Mexican border: 1794.3 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 88.5 degrees Distance: 262.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 264.0 degrees Distance: 1364.2 km

Study cell size: 1.00 km

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

Proposal causes no interference to BLANK0000235588 LIC

Proposal causes 0.00% interference to BLANK0000107925 LIC scenario 1

---- Below is IX received by proposal W35DY-LD ----

Proposal receives 2.21% interference from scenario 1

No IX check failures found.