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**Engineering Statement
WIIW-LD Nashville, TN
Statement regarding Protection of Land Mobile Radio Facilities
November 2023**

This Engineering Statement has been prepared on behalf of Bridge News, LLC ("Bridge News"), licensee of digital LPTV station WIIW-LD, which holds a construction permit 00000213351 for displacement from Ch29 to Ch14. Construction of the displacement facility has been completed, and this exhibit has been prepared in order to address the condition on the construction permit which requires Bridge News to "take adequate measures to identify and substantially eliminate objectionable interference which may be caused to existing land mobile radio facilities in the 460 to 470 MHz band," and to provide documentation that objectionable interference will not be caused.

This study consists of two parts: 1) An analysis of the impact of out-of-band interference from WIIW-LD into LM receivers, and 2) analysis of LM receiver overload (desensitization) due to WIIW-LD operating on an adjacent channel.

Summary

The WIIW-LD transmitting antenna is located on a 417.4 meter tower with FCC Antenna Structure Registration number 1050735, located in western Nashville. The facility will operate elliptically polarized with 15 kW ERP horizontal and 3 kW ERP vertical, with a directional antenna and a specially-tuned 8-pole full service mask filter. Filter measurements were made by supplier Com-Tech. Those measurements are referenced in this Engineering Statement and used to support the attached calculations.

The interference study calculations confirm that the operation of the constructed WIIW-LD facility eliminates objectionable interference to existing land mobile radio facilities in all cases.

Likewise, the overload analysis calculations found no cases of potential LM receiver signal overload.

Interference Analysis

Detailed calculations have been performed, to evaluate the level of interference protection which is provided to all LMR records in the ULS database which list site coordinates within 100 kilometers of the WIIW-LD transmitter site, and which are within 5 MHz of the lower edge of the WIIW-LD 470-476 MHz spectrum. This analysis is depicted on the attached spreadsheet (Appendix A).

The several calculated fields of the spreadsheet are described in the following table:

WIIW-LD ERP H+V (dBm) The WIIW-LD ERP in dBm has been calculated on the azimuth to the listed LMR license site coordinates, from the authorized horizontally- and vertically-polarized components and directional pattern. The horizontally-polarized component was assumed to be attenuated by 10 dB, to account for cross-polarization loss for typical vertically-polarized LMR receive antennas.
Transmitter + Filter Net Attenuation (dB) The measured attenuation of the transmitter and filter, from a lookup table in the spreadsheet which includes interpolated attenuation values between the measurement points.
DTV Coupling into LM for LM=11.2 kHz (dB) The total DTV channel power needs to be adjusted to provide the equivalent channel power within the 11.2 kHz channel bandwidth used by most LMR stations. The adjustment factor to provide the signal power in a 11.2 kHz bandwidth (referencing typical 500 kHz bandwidth for the DTV transmitter lower adjacent channel sideband pre-filter response) is $10 * \text{LOG}(500/11.2) = 16.5 \text{ dB}$.
Worst case Power on LMR Frequency (dBm) ERP – measured attenuation – coupling factor This spurious energy would appear at the front end of the LMR receivers as broadband noise.
Free Space Loss (dB) Free space loss calculated per the distance to the LMR site, and the LMR frequency. $FSPL(dB) = 20\log(d) + 20\log(f) + 32.45 - (2 * 2.15 \text{ dB})$
LM Line Loss (dB) Transmission line loss presumed to be experienced between the LMR antenna and receiver.
Calculated interfering signal field strength (dBu) Worst case Power – Free Space Loss – LM Line Loss

Interference was considered to occur where the calculated field strength from Ch14 at the LMR site was 17 dBu or greater, per §73.687(e)(4)(ii) of the Commission's Rules.

The following table presents an example calculation of the interference study methodology.

Parameter	Value
LMR License WQHE537 site 8: 10.5 km from Ch14 at 229.5 degrees	
Land Mobile station frequency	467.7625 MHz
Ch14 transmit ERP total of H+V planes at given azimuth (including 10 dB cross-pol loss for H-pol component)	54.38 dBm
Transmitter + filter loss at LMR frequency	-114.32 dB
Free Space Path loss for dipole antenna at frequency and distance	-101.97 dB
DTV coupling into LM (Bandwidth: DTV=500 kHz, LM=11.2 kHz)	-16.5 dB
LM line loss	-2.0 dB
Effective received DTV station interference power	-180.41 dBm Equals: -51.96 dBu
Interference threshold signal level (LM receiver sensitivity)	17 dBu
Margin for interference	68.96 dB
Analysis result	Pass

The study results (presented at Appendix A) initially found 2 cases where this field strength threshold was exceeded, by at most 2.52 dB. Additional analysis was then performed on these 2 cases to evaluate the impact of other factors which would reduce the Ch14 field strength, namely adjustment for actual LM channel bandwidth, and adjustment for the Ch14 antenna elevation pattern on the depression angle to the LM receive antenna. While both of these LMR license frequencies (both utilized under license WQVI301) were found per the license to be operating with the standard 11.2 kHz bandwidth (and therefore no adjustment would be made on that factor), their fixed receive site is located at a relatively steep 13.17 degree depression angle from the

Ch14 antenna. The elevation pattern at this depression angle attenuates the Ch14 signal by an additional 16.56 dB, thus resolving this issue for the two cases.

Overload Analysis

Detailed calculations have been performed, to evaluate the potential for LM receiver overload (desensitization) to all LMR records in the ULS database which list site coordinates within 100 kilometers of the WIIW-LD transmitter site, and which are within 5 MHz of the lower edge of the WIIW-LD 470-476 MHz spectrum. This analysis is depicted on the attached spreadsheet (Appendix B).

This study found no cases of potential LM receiver signal overload

The following table presents an example calculation of the overload study methodology.

Parameter	Value
LMR License WQHE537 site 8: 10.5 km from Ch14 at 229.5 degrees	
Lower band edge frequency of TV station (Ch14)	470 MHz
Ch14 transmit ERP total of H+V planes at given azimuth (including 10 dB cross-pol loss for H-pol component)	54.38 dBm
Free Space Path loss for dipole antenna at frequency and distance	-102.02 dB
DTV coupling into LM (Bandwidth: DTV=5380 kHz, LM-11.2 kHz)	-26.8 dB
LM line loss	-2.0 dB
LM receiver out of band rejection ¹	-80.0 dB
Effective received DTV station interference power	-156.44 dBm
LM receiver sensitivity	-120.0 dBm
Margin for overload	36.44 dB
Analysis result	Pass

¹ Typical value per receiver manufacturers

Conclusion

The calculations described in this Engineering Statement demonstrate that the interfering signal level power from WIIW-LD would be below the noise floor of every fixed LMR station in the area and thus interference to these LMR stations is not predicted to occur.

Statement of Engineer

This Engineering Statement has been prepared by the undersigned. I am an engineer in the firm of Hatfield & Dawson Consulting Engineers, and am registered as a Professional Engineer in the State of Washington. I hereby declare that the facts set out in the foregoing Engineering Statement, except those of which official notice may be taken, are true and correct.

Signed this 29th day of November, 2023



Erik C. Swanson, P.E.

Appendices follow

Appendix A: LMR Interference Protection Calculations

Appendix B: LMR Overload Protection Calculations

Appendix C: Ch14 antenna technical and pattern data

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)							
WQVJ301	3	36	8	5 N		86	51	25.9 W		1	132.1	469.3625	66.20	-75.09	-16.5	-25.38	-81.58	-2.00	19.52	11.20	0.00	13.17	-16.56	2.96		
WQVJ301	3	36	8	5 N		86	51	25.9 W		1	132.1	469.2875	66.20	-76.26	-16.5	-26.55	-81.58	-2.00	18.35	11.20	0.00	13.17	-16.56	1.79		
WQVJ266	8	36	8	32 N		86	49	1.7 W		4.4	88.0	469.9250	66.50	-71.31	-16.5	-21.30	-94.46	-2.00	10.73							
WQVJ203	6	36	10	48.8 N		86	51	6.8 W		4.5	15.6	469.9125	65.15	-71.24	-16.5	-22.59	-94.65	-2.00	9.25							
WQUM969	2	36	9	1.5 N		86	48	7.7 W		5.8	79.4	469.6500	66.43	-70.98	-16.5	-21.05	-96.85	-2.00	8.59							
WQVJ399	2	36	7	56.6 N		86	47	44.6 W		6.4	98.5	469.7250	66.44	-70.24	-16.5	-20.30	-97.71	-2.00	8.48							
WRRBQ360	2	36	9	15.2 N		86	48	10 W		5.8	75.2	469.8875	66.42	-71.09	-16.5	-21.18	-96.86	-2.00	8.46							
WQUM969	2	36	9	1.5 N		86	48	7.7 W		5.8	79.4	469.9125	66.43	-71.24	-16.5	-21.30	-96.86	-2.00	8.33							
WNNK373	2	36	8	25.2 N		86	47	53 W		6.1	90.5	469.9750	66.52	-71.59	-16.5	-21.57	-97.30	-2.00	7.62							
WRRH470	1	36	9	6.3 N		86	47	35.3 W		6.6	79.4	469.8750	66.43	-71.02	-16.5	-21.09	-97.98	-2.00	7.42							
WRRH470	1	36	9	6.3 N		86	47	35.3 W		6.6	79.4	469.9625	66.43	-71.52	-16.5	-21.59	-97.98	-2.00	6.92							
WQVJ625	2	36	9	12.5 N		86	48	32.3 W		5.3	74.5	469.4500	66.41	-73.48	-16.5	-23.57	-96.07	-2.00	6.85							
WQMD594	3	36	9	30.7 N		86	47	3 W		7.6	74.9	469.7000	66.41	-70.49	-16.5	-20.58	-99.20	-2.00	6.71							
WQCE918	2	36	8	41.2 N		86	48	3 W		5.8	85.7	469.4750	66.47	-72.97	-16.5	-23.00	-96.85	-2.00	6.63							
WRRBQ943	7	36	10	17.8 N		86	51	37.8 W		3.4	7.6	469.3250	64.54	-75.67	-16.5	-27.64	-92.21	-2.00	6.63							
WNA7848	2	36	9	33.2 N		86	46	55 W		7.8	74.7	469.7750	66.41	-70.45	-16.5	-20.54	-99.43	-2.00	6.52							
WFOA612	2	36	9	33.2 N		86	46	55 W		7.8	74.7	469.8250	66.41	-70.73	-16.5	-20.82	-99.43	-2.00	6.23							
WRLJ850	2	36	9	13.4 N		86	48	14.6 W		5.7	75.4	469.4375	66.42	-73.73	-16.5	-23.82	-96.70	-2.00	5.97							
WQTK807	2	36	9	29 N		86	46	36.6 W		8.2	76.5	469.6875	66.42	-70.61	-16.5	-20.69	-99.86	-2.00	5.93							
WQVJ257	4	36	9	50 N		86	47	5.4 W		7.7	70.5	469.6250	66.38	-71.22	-16.5	-21.34	-99.31	-2.00	5.83							
WQVJ781	1	36	9	37.9 N		86	46	41.9 W		8.2	74.4	469.6750	66.41	-70.73	-16.5	-20.82	-99.86	-2.00	5.80							
WQVJ625	2	36	9	12.5 N		86	48	32.3 W		5.3	74.5	469.3750	66.41	-74.89	-16.5	-24.98	-96.07	-2.00	5.43							
WQQA563	33	36	10	45.8 N		86	46	38.7 W		9	61.5	469.9250	66.32	-70.24	-16.5	-20.42	-100.67	-2.00	5.40							
WRRF880	2	36	9	40.4 N		86	46	42.5 W		8.2	73.8	469.9000	66.40	-71.16	-16.5	-21.26	-99.87	-2.00	5.36							
WRRF880	3	36	9	40.4 N		86	46	42.5 W		8.2	73.8	469.9125	66.40	-71.24	-16.5	-21.33	-99.87	-2.00	5.29							
WROE559	2	36	9	11.8 N		86	47	6.4 W		7.4	79.1	469.5250	66.43	-72.21	-16.5	-22.28	-98.97	-2.00	5.24							
WRAC915	2	36	8	43.1 N		86	48	32.4 W		5.1	84.4	469.3375	66.46	-75.48	-16.5	-25.52	-95.73	-2.00	5.23							
WQVJ639	1	36	9	35.2 N		86	46	18.7 W		8.7	75.9	469.8375	66.42	-70.81	-16.5	-20.89	-100.38	-2.00	5.22							
WQVJ200	1	36	9	54.9 N		86	46	38.5 W		8.4	71.0	469.8875	66.39	-71.09	-16.5	-21.20	-100.08	-2.00	5.21							
WQRA699	2	36	9	25.9 N		86	46	36.2 W		8.2	77.1	469.6125	66.42	-71.35	-16.5	-21.43	-99.86	-2.00	5.20							
WQVJ882	2	36	7	29.6 N		86	46	2.6 W		9	101.3	469.6750	66.43	-70.73	-16.5	-20.80	-100.67	-2.00	5.02							
WREAF77	3	36	9	50.4 N		86	46	43.5 W		8.2	71.7	469.5750	66.39	-71.72	-16.5	-21.83	-99.86	-2.00	4.79							
WNNF433	2	36	8	5.2 N		86	47	40 W		6.4	96.0	469.4250	66.46	-73.99	-16.5	-24.03	-97.70	-2.00	4.75							
WRCF268	1	36	7	11.1 N		86	51	11.4 W		2.6	154.6	469.0375	65.73	-81.15	-16.5	-31.92	-89.87	-2.00	4.68							
WQQA563	33	36	10	45.8 N		86	46	38.7 W		9	61.5	469.9250	66.32	-71.31	-16.5	-21.49	-100.68	-2.00	4.33							
WRLJ617	10	36	9	56.8 N		86	46	6.9 W		9.2	72.3	469.6250	66.39	-71.22	-16.5	-21.33	-100.86	-2.00	4.29							
WQPLJ818	3	36	11	55 N		86	48	16 W		8.4	40.5	469.5750	66.09	-71.72	-16.5	-22.13	-100.07	-2.00	4.29							
WQXK609	2	36	6	0.5 N		86	49	16.6 W		6	138.7	469.3875	66.12	-74.70	-16.5	-25.07	-97.14	-2.00	4.26							
WQPLJ818	2	36	10	3 N		86	46	24 W		8.8	70.3	469.5750	66.38	-71.72	-16.5	-21.84	-100.47	-2.00	4.17							
WQVJ951	1	36	8	45.9 N		86	45	6.3 W		10.3	86.7	469.8375	66.48	-70.81	-16.5	-20.83	-101.85	-2.00	3.82							
WQVJ787	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	469.6250	66.50	-71.22	-16.5	-21.22	-101.76	-2.00	3.51							
WREL367	1	36	9	6.8 N		86	48	0.9 W		6	78.1	469.3125	66.43	-75.87	-16.5	-25.94	-97.14	-2.00	3.40							
WQSK787	4	36	5	50.8 N		86	45	19.2 W		11	115.9	469.6750	66.35	-70.73	-16.5	-20.88	-102.41	-2.00	3.19							
WRCM798	2	36	9	22.9 N		86	46	31.1 W		8.3	77.9	469.4500	66.42	-73.48	-16.5	-23.56	-99.96	-2.00	2.96							
WRRBQ360	2	36	9	15.2 N		86	48	10 W		5.8	75.2	469.2625	66.42	-76.65	-16.5	-26.73	-96.85	-2.00	2.90							
WRFU298	2	36	9	53.8 N		86	50	32 W		3.4	38.3	469.0375	66.05	-81.15	-16.5	-31.60	-92.20	-2.00	2.67							
WQVJ0819	1	36	8	15 N		86	52	58 W		1.6	256.5	469.6375	49.41	-71.10	-16.5	-38.19	-85.67	-2.00	2.63							
WQPLJ818	3	36	11	55 N		86	48	16 W		8.4	40.5	469.4500	66.09	-73.48	-16.5	-23.89	-100.07	-2.00	2.53							
WRRBQ360	4	36	7	43.9 N		86	50	38.7 W		2.3	124.6	468.8375	66.28	-84.94	-16.5	-35.15	-88.81	-2.00	2.51							
WRAH728	2	36	13	48.2 N		86	48	20.8 W		11.3	28.4	469.6125	65.80	-70.66	-16.5	-21.36	-102.65	-2.00	2.48							
WQPLJ818	2	36	10	3 N		86	46	24 W		8.8	70.3	469.4500	66.38	-73.48	-16.5	-23.60	-100.47	-2.00	2.41							
WQVJ203	6	36	10	48.8 N		86	51																			

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dbm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WPMU555	3	36	13	18.2 N		86	44	38 W		14.2	50.5	469.9625	66.22	-71.52	-16.5	-21.80	-104.64	-2.00	0.05														
WQUW756	1	36	7	51.8 N		86	46	1.5 W		8.9	97.0	469.3125	66.45	-75.87	-16.5	-25.91	-100.57	-2.00	0.00														
WPCA631	1	36	9	33.2 N		86	46	55 W		7.8	74.7	469.2375	66.41	-77.05	-16.5	-27.14	-99.42	-2.00	-0.08														
WRCY205	2	36	8	42.9 N		86	40	59.2 W		16.4	88.2	469.8375	66.50	-70.81	-16.5	-20.80	-105.89	-2.00	-0.20														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	469.7375	66.33	-70.23	-16.5	-20.40	-106.30	-2.00	-0.21														
WQCY257	4	36	9	50 N		86	41	5.4 W		70.5	469.2250	66.38	-77.31	-16.5	-27.43	-99.31	-2.00	-0.25															
WQOS896	17	36	12	6.2 N		86	41	22 W		17.2	66.8	469.7500	66.35	-70.30	-16.5	-20.45	-106.30	-2.00	-0.26														
WQUP944	1	36	7	47.1 N		86	41	31.7 W		15.7	94.5	469.9250	66.48	-71.31	-16.5	-21.33	-105.51	-2.00	-0.35														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	469.7625	66.33	-70.38	-16.5	-20.54	-106.30	-2.00	-0.35														
WRJV620	7	36	9	26.6 N		86	47	8.1 W		7.4	75.6	469.2000	66.42	-77.82	-16.5	-27.90	-98.96	-2.00	-0.39														
WQUUM756	1	36	7	51.8 N		86	46	1.5 W		8.9	97.0	469.2875	66.45	-76.26	-16.5	-26.31	-100.57	-2.00	-0.39														
WPEX452	2	36	9	33 N		86	46	42 W		8.1	75.4	469.2375	66.42	-77.05	-16.5	-27.14	-99.75	-2.00	-0.40														
WRDM296	1	36	6	25 N		86	40	47.5 W		17.1	102.7	469.8000	66.43	-70.59	-16.5	-20.66	-106.25	-2.00	-0.42														
WQTD530	1	36	5	10 N		86	41	41 W		16.5	111.6	469.6625	66.38	-70.86	-16.5	-20.98	-105.94	-2.00	-0.43														
WRKH589	12	36	9	0.5 N		86	41	6.5 W		16.3	86.3	469.8875	66.48	-71.09	-16.5	-21.11	-105.83	-2.00	-0.46														
WRBQ256	2	36	6	54.5 N		86	41	31.6 W		15.9	100.3	469.6125	66.44	-71.35	-16.5	-21.41	-105.61	-2.00	-0.54														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	469.3500	66.50	-75.28	-16.5	-25.28	-101.75	-2.00	-0.55														
RNDZ493	2	36	12	34.2 N		86	41	40 W		17.2	63.5	469.8000	66.33	-70.59	-16.5	-20.76	-106.30	-2.00	-0.57														
WPCA631	1	36	9	33.2 N		86	46	55 W		7.8	74.7	469.2125	66.41	-77.56	-16.5	-27.65	-99.42	-2.00	-0.60														
WPIH400	2	36	16	4.9 N		86	47	44.7 W		15.4	23.9	469.8500	65.61	-70.88	-16.5	-21.77	-105.34	-2.00	-0.62														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	469.8125	66.33	-70.66	-16.5	-20.83	-106.30	-2.00	-0.64														
WQTD530	1	36	5	10 N		86	41	41 W		16.5	111.6	469.8875	66.38	-71.09	-16.5	-21.22	-105.94	-2.00	-0.67														
WQTD530	1	36	5	10 N		86	41	41 W		16.5	111.6	469.6375	66.38	-71.10	-16.5	-21.23	-105.93	-2.00	-0.68														
WQRM718	2	36	11	1.7 N		86	52	41.4 W		4.9	346.7	469.2125	62.18	-77.56	-16.5	-31.89	-95.38	-2.00	-0.79														
WPLK690	1	36	8	44.2 N		86	41	31 W		15.6	88.0	469.5625	66.50	-71.84	-16.5	-21.84	-105.45	-2.00	-0.80														
WNQK542	2	36	7	6.2 N		86	40	9 W		17.9	98.0	469.8000	66.44	-70.59	-16.5	-20.65	-106.65	-2.00	-0.80														
WQXQ340	3	36	9	33 N		86	46	42.7 W		8.1	75.4	469.2125	66.42	-77.56	-16.5	-27.65	-99.75	-2.00	-0.92														
WNSR977	4	36	12	24.8 N		86	41	32 W		17.2	64.7	469.8625	66.34	-70.95	-16.5	-21.11	-106.30	-2.00	-0.92														
WYK846	3	36	12	35.2 N		86	47	57 W		9.7	37.8	469.3250	66.03	-75.67	-16.5	-26.14	-101.31	-2.00	-0.97														
WYV873	3	36	12	34.2 N		86	41	40 W		17.2	63.5	469.8750	66.33	-71.02	-16.5	-21.19	-106.30	-2.00	-1.00														
WRAW820	3	35	59	44.6 N		86	48	8.6 W		17.1	160.6	469.7250	65.47	-70.24	-16.5	-21.27	-106.25	-2.00	-1.03														
WQKY311	2	36	9	58.4 N		86	46	17.1 W		8.9	71.5	469.2500	66.39	-76.84	-16.5	-26.96	-100.57	-2.00	-1.04														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	469.6375	66.33	-71.10	-16.5	-21.27	-106.30	-2.00	-1.08														
WQUUM756	1	36	7	51.8 N		86	46	1.5 W		8.9	97.0	469.2375	66.45	-77.05	-16.5	-27.10	-100.57	-2.00	-1.19														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	469.6125	66.33	-71.35	-16.5	-21.51	-106.30	-2.00	-1.32														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	469.3000	66.50	-76.06	-16.5	-26.06	-101.75	-2.00	-1.33														
WRJX461	2	36	9	37.7 N		86	46	45.3 W		8.1	74.2	469.1875	66.41	-78.08	-16.5	-28.17	-99.75	-2.00	-1.44														
WRKH611	3	36	9	31.4 N		86	46	22.1 W		8.6	76.5	469.2125	66.42	-77.56	-16.5	-27.65	-100.27	-2.00	-1.44														
WQDZ620	1	36	9	45.7 N		86	46	54.5 W		7.9	72.1	469.1750	66.39	-78.33	-16.5	-28.44	-99.53	-2.00	-1.49														
WRAW820	3	35	59	44.6 N		86	48	8.6 W		17.1	160.6	469.8250	65.47	-70.73	-16.5	-21.76	-106.25	-2.00	-1.52														
WRDM296	1	36	6	25 N		86	40	47.5 W		17.1	102.7	469.5750	66.43	-71.72	-16.5	-21.79	-106.24	-2.00	-1.55														
WPCA631	1	36	9	33.2 N		86	46	55 W		7.8	74.7	469.1625	66.41	-78.59	-16.5	-28.68	-99.42	-2.00	-1.62														
WQUUM756	1	36	7	51.8 N		86	46	1.5 W		8.9	97.0	469.2125	66.45	-77.56	-16.5	-27.61	-100.57	-2.00	-1.70														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	469.2750	66.50	-76.45	-16.5	-26.45	-101.75	-2.00	-1.72														
WQWC685	2	36	8	12.6 N		86	40	0.6 W		17.9	91.4	469.5875	66.51	-71.59	-16.5	-21.58	-106.64	-2.00	-1.74														
WRBK817	1	36	9	42.7 N		86	46	32.8 W		8.4	73.8	469.1875	66.48	-78.08	-16.5	-28.17	-100.06	-2.00	-1.76														
WRAW820	3	35	59	44.6 N		86	48	8.6 W		17.1	160.6	469.8750	65.47	-71.02	-16.5	-22.05	-106.25	-2.00	-1.81														
WRFI363	2	36	9	37.6 N		86	46	47.5 W		8	74.2	469.1625	66.41	-78.59	-16.5	-28.68	-99.64	-2.00	-1.84														
WRAW820	3	35	59	44.6 N		86	48	8.6 W		17.1	160.6	469.9250	65.47	-71.31	-16.5	-22.33	-106.25	-2.00	-2.09														
WPCA631	1	36	9	33.2 N		86	46	55 W		7.8	74.7	469.1375	66.41	-79.10	-16.5	-29.19	-99.42	-2.00	-2.13														
WPGH743	3	35	59	22.2 N		86	49	21 W		17.1	167.0	469.8500	66.41	-70.88	-16.5	-22.37	-106.30	-2.00	-2.18														
WPEX452	2	36	9	33 N		86	46	42 W		8.1	75.4	469.1500	66.42	-78.84	-16.5	-28.93	-99.75	-2.00	-2.20														
W																																	

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED				
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
IXDS063	2	36	12	29.2 N	N	86	41	39 W		17.1	64.0	469.3750	66.34	-74.89	-16.5	-25.05	-106.24	-2.00	-4.81					
WQV0819	1	36	8	15 N	N	86	52	58 W		1.6	256.5	469.1625	49.41	-78.59	-16.5	-45.68	-85.66	-2.00	-4.86					
WQYC257	4	36	9	50 N	N	86	47	5.4 W		7.7	70.5	469.0000	66.38	-81.92	-16.5	-32.04	-99.30	-2.00	-4.87					
WQV639	1	36	9	35.2 N	N	86	46	18.7 W		8.7	75.9	469.0500	66.42	-80.89	-16.5	-30.98	-100.36	-2.00	-4.87					
WRKD358	2	36	15	28.1 N	N	86	49	46.7 W		13.4	13.9	469.3125	65.01	-75.87	-16.5	-27.36	-104.12	-2.00	-5.00					
WQXQ240	3	36	9	33 N	N	86	46	42.7 W		8.1	75.4	469.0125	66.48	-81.66	-16.5	-31.75	-99.74	-2.00	-5.02					
WPIJ400	2	36	16	4.9 N	N	86	47	44.7 W		15.4	23.9	469.3500	65.61	-75.28	-16.5	-26.17	-105.33	-2.00	-5.02					
WRCK251	1	36	11	39.4 N	N	86	44	38.1 W		12.4	61.4	469.1875	66.32	-78.08	-16.5	-28.26	-103.45	-2.00	-5.23					
WQV0819	1	36	8	15 N	N	86	52	58 W		1.6	256.5	469.1375	49.41	-79.10	-16.5	-46.19	-85.66	-2.00	-5.37					
WRBQ360	2	36	9	15.2 N	N	86	48	10 W		5.8	75.2	468.8375	66.42	-84.94	-16.5	-35.02	-96.84	-2.00	-5.39					
WRBQ366	1	36	1	42.6 N	N	86	36	23.6 W		26.4	118.1	469.5750	66.32	-71.72	-16.5	-21.89	-110.02	-2.00	-5.42					
WPGH743	5	35	55	10.5 N	N	86	42	55.7 W		29	151.2	469.8500	65.84	-70.88	-16.5	-21.54	-110.53	-2.00	-5.58					
WQTL947	3	36	11	3.2 N	N	86	30	35.4 W		32.4	81.3	469.7375	66.44	-70.23	-16.5	-20.29	-111.80	-2.00	-5.60					
WRH366	1	36	0	24.3 N	N	86	35	10.4 W		29.2	120.6	469.8750	66.30	-71.02	-16.5	-21.22	-110.90	-2.00	-5.62					
WRCW485	3	36	6	48.9 N	N	86	45	20 W		10.4	107.0	469.0875	66.40	-80.13	-16.5	-30.22	-101.92	-2.00	-5.66					
WQWT531	1	36	12	1 N	N	86	44	21 W		13.1	59.7	469.1875	66.30	-78.08	-16.5	-28.28	-103.92	-2.00	-5.72					
WQDA563	30	36	10	45.8 N	N	86	46	38.7 W		9	61.5	469.0250	66.32	-81.41	-16.5	-31.59	-100.66	-2.00	-5.77					
WQUM756	1	36	7	51.8 N	N	86	46	1.5 W		8.9	97.0	469.0125	66.45	-81.66	-16.5	-31.71	-100.56	-2.00	-5.80					
WRIT629	1	35	59	14.2 N	N	86	34	58.7 W		30.6	123.8	469.8375	66.28	-70.81	-16.5	-21.02	-111.30	-2.00	-5.84					
WQUP944	1	36	7	47.1 N	N	86	41	31.7 W		15.7	94.5	469.2500	66.48	-76.84	-16.5	-26.86	-105.50	-2.00	-5.88					
WQV0819	1	36	8	15 N	N	86	52	58 W		1.6	256.5	469.1125	49.41	-79.61	-16.5	-46.70	-85.66	-2.00	-5.89					
WQTD947	3	36	11	3.2 N	N	86	30	35.4 W		32.4	81.3	469.8125	66.44	-70.66	-16.5	-20.72	-111.80	-2.00	-6.03					
WPIJ400	2	36	16	4.9 N	N	86	47	44.7 W		15.4	23.9	469.2750	65.61	-76.45	-16.5	-27.34	-105.33	-2.00	-6.19					
WQWT531	1	36	12	1 N	N	86	44	21 W		13.1	59.7	469.1625	66.30	-78.59	-16.5	-28.79	-103.92	-2.00	-6.23					
WQRE664	1	36	1	2.2 N	N	86	31	0 W		34.3	113.6	469.7500	66.36	-70.30	-16.5	-20.44	-112.29	-2.00	-6.25					
WQV0819	1	36	8	15 N	N	86	52	58 W		1.6	256.5	469.0875	49.41	-80.13	-16.5	-47.22	-85.66	-2.00	-6.40					
WRKC593	1	36	23	25.1 N	N	86	46	25.5 W		28.9	16.5	469.8375	65.21	-70.81	-16.5	-22.10	-110.81	-2.00	-6.41					
WRMA455	3	36	11	34.1 N	N	86	28	51 W		35.1	80.4	469.7125	66.44	-70.38	-16.5	-20.42	-112.49	-2.00	-6.43					
WRMA455	3	36	11	34.1 N	N	86	28	51 W		35.1	80.4	469.7625	66.44	-70.38	-16.5	-20.44	-112.49	-2.00	-6.44					
WRV134	2	36	12	53.9 N	N	86	47	1 W		11	41.7	469.0875	66.10	-80.13	-16.5	-30.52	-102.40	-2.00	-6.45					
WQMM949	2	36	9	41.6 N	N	86	47	2 W		7.7	72.5	468.9125	66.39	-83.55	-16.5	-33.65	-99.30	-2.00	-6.48					
WPIJ400	2	36	16	4.9 N	N	86	47	44.7 W		15.4	23.9	469.2500	65.61	-76.84	-16.5	-27.73	-105.33	-2.00	-6.58					
WFOA386	7	36	7	37.2 N	N	86	40	53 W		16.6	95.3	469.2375	66.47	-77.05	-16.5	-27.08	-105.98	-2.00	-6.58					
WQSU632	1	36	14	8 N	N	86	45	32 W		14.2	60.3	469.1875	66.12	-78.08	-16.5	-28.45	-104.62	-2.00	-6.60					
WRON488	2	35	59	34.7 N	N	86	34	38.1 W		30.7	122.3	469.5875	66.29	-71.59	-16.5	-21.80	-111.33	-2.00	-6.65					
WRMA455	3	36	11	34.1 N	N	86	28	51 W		35.1	80.4	469.6875	66.44	-70.61	-16.5	-20.67	-112.49	-2.00	-6.68					
WRCW485	3	36	6	48.9 N	N	86	45	20 W		10.4	107.0	469.0375	66.40	-81.15	-16.5	-31.24	-101.91	-2.00	-6.69					
WQWT531	1	36	12	1 N	N	86	44	21 W		13.1	59.7	469.1375	66.30	-79.10	-16.5	-29.30	-103.92	-2.00	-6.75					
WRCK251	1	36	11	39.4 N	N	86	44	38.1 W		12.4	61.4	469.1125	66.32	-79.61	-16.5	-29.79	-103.44	-2.00	-6.76					
WQPL818	3	36	11	55 N	N	86	48	16 W		8.4	40.5	468.9500	66.09	-82.85	-16.5	-33.26	-100.06	-2.00	-6.85					
WQFV808	2	36	13	55.1 N	N	86	48	12.9 W		11.5	28.7	469.1000	65.80	-79.87	-16.5	-30.56	-102.79	-2.00	-6.88					
WRFM502	2	35	55	20.5 N	N	86	53	54.5 W		24.4	187.0	469.8125	63.11	-70.66	-16.5	-24.05	-109.34	-2.00	-6.90					
WQV0819	1	36	8	15 N	N	86	52	58 W		1.6	256.5	469.0625	49.41	-80.64	-16.5	-47.73	-85.66	-2.00	-6.91					
WQPL818	2	36	10	30 N	N	86	46	24 W		8.8	70.3	468.9500	66.38	-82.85	-16.5	-32.97	-100.46	-2.00	-6.96					
WRWC811	2	35	57	30.2 N	N	86	49	11 W		20.7	168.5	469.4250	64.93	-73.99	-16.5	-25.56	-107.90	-2.00	-7.03					
WQVB529	1	35	54	54.3 N	N	86	50	51.1 W		25.1	176.3	469.5750	64.28	-71.72	-16.5	-23.96	-105.58	-2.00	-7.08					
WQVE951	1	36	8	45.9 N	N	86	45	6.3 W		10.3	86.7	469.0125	66.48	-81.66	-16.5	-31.68	-101.83	-2.00	-7.04					
WPIJ400	2	36	16	4.9 N	N	86	47	44.7 W		15.4	23.9	469.2250	65.61	-77.31	-16.5	-28.20	-105.33	-2.00	-7.05					
WRKC593	1	36	23	25.1 N	N	86	46	25.5 W		28.9	16.5	469.6000	65.21	-71.47	-16.5	-22.76	-110.80	-2.00	-7.08					
WQSU632	1	36	14	8 N	N	86	45	32 W		14.2	60.3	469.1625	66.12	-78.59	-16.5	-28.97	-104.62	-2.00	-7.11					
WRUC798	2	36	4	9.5 N	N	86	26	46.2 W		38.6	164.3	469.7375	66.41</											

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WQW7531	1	36	12	1	N	86	44	21	W	13.1	59.7	469.0375	66.30	-81.15	-16.5	-31.35	-103.92	-2.00	-8.80														
WRBB056	2	36	6	54.5	N	86	41	31.6	W	15.9	100.3	469.1125	66.44	-79.61	-16.5	-29.67	-105.60	-2.00	-8.80														
WQWN435	2	36	7	45.7	N	86	24	20.8	W	41.4	91.6	469.9375	66.51	-71.38	-16.5	-21.37	-113.93	-2.00	-8.81														
WQRW472	2	36	8	36.4	N	86	48	39.3	W	4.9	86.6	468.5750	66.48	-90.09	-16.5	-40.12	-95.37	-2.00	-9.02														
WRMA455	3	36	11	34.1	N	86	28	51	W	35.1	80.4	469.4750	66.44	-72.97	-16.5	-23.03	-112.49	-2.00	-9.03														
WQVBS29	1	35	54	54.3	N	86	50	51.1	W	25.1	176.3	469.4375	66.48	-73.73	-16.5	-25.95	-109.58	-2.00	-9.05														
WQY1361	4	35	53	52.5	N	86	57	29.7	W	28.2	197.2	469.7375	61.75	-70.23	-16.5	-24.98	-110.59	-2.00	-9.09														
WQSU632	1	36	14	8	N	86	45	32	W	14.2	42.2	469.0625	66.12	-80.64	-16.5	-31.01	-104.62	-2.00	-9.16														
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	469.1125	66.38	-79.61	-16.5	-29.74	-105.93	-2.00	-9.19														
WRDK577	3	35	55	37.6	N	86	34	40.7	W	35.1	132.5	469.4750	66.20	-72.97	-16.5	-23.26	-112.49	-2.00	-9.27														
WQW7531	1	36	12	1	N	86	44	21	W	13.1	59.7	469.0125	66.30	-81.66	-16.5	-31.86	-103.92	-2.00	-9.31														
WQTN807	2	36	9	29	N	86	46	36.6	W	8.2	76.5	468.7875	66.42	-85.86	-16.5	-35.95	-99.85	-2.00	-9.32														
WPPP273	1	36	22	35.2	N	86	25	20	W	47.7	56.5	469.7750	66.28	-70.45	-16.5	-20.67	-115.16	-2.00	-9.34														
WQQT469	4	35	57	50	N	86	29	25.5	W	39.1	120.1	469.5250	66.30	-72.21	-16.5	-22.41	-113.43	-2.00	-9.35														
WRMQ326	2	35	48	42.9	N	86	50	19.8	W	36.6	176.2	469.8375	64.28	-70.81	-16.5	-23.03	-112.86	-2.00	-9.40														
KJUR624	2	35	57	50.2	N	86	29	10	W	39.4	119.9	469.5250	66.32	-72.21	-16.5	-22.39	-113.49	-2.00	-9.40														
WREF471	1	36	7	35.4	N	86	46	36.7	W	8.1	101.3	468.7750	66.43	-86.09	-16.5	-36.16	-99.74	-2.00	-9.43														
WREF473	1	36	7	35.4	N	86	46	36.7	W	8.1	101.3	468.7750	66.43	-86.09	-16.5	-36.16	-99.74	-2.00	-9.43														
WQOB999	14	36	11	9.3	N	86	19	33.4	W	48.8	83.9	469.7875	66.45	-70.52	-16.5	-20.57	-115.36	-2.00	-9.43														
WQZA724	3	35	59	47.9	N	86	36	13.9	W	28.5	124.2	469.3625	66.28	-75.09	-16.5	-25.31	-110.68	-2.00	-9.50														
WRJV620	3	36	10	26.2	N	86	31	4.6	W	31.5	83.2	469.4000	66.45	-74.50	-16.5	-24.55	-111.55	-2.00	-9.61														
WPPF273	1	36	22	35.2	N	86	25	20	W	47.7	56.5	469.8250	66.28	-70.73	-16.5	-20.95	-115.16	-2.00	-9.62														
WQJG17	10	36	9	6.9	W	86	46	6.9	W	9.2	72.3	468.8250	66.39	-85.17	-16.5	-35.27	-100.85	-2.00	-9.65														
WPMS332	3	36	9	7.4	N	86	42	26.4	W	14.3	84.9	469.0250	66.46	-81.41	-16.5	-31.44	-104.68	-2.00	-9.65														
WQSU632	1	36	14	8	N	86	45	32	W	14.2	42.2	469.0375	66.12	-81.15	-16.5	-31.53	-104.62	-2.00	-9.67														
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	469.0875	66.38	-80.13	-16.5	-30.25	-105.92	-2.00	-9.70														
WQW8337	3	35	50	36.2	N	86	33	46	W	42.8	140.4	469.9750	66.09	-71.59	-16.5	-22.00	-114.22	-2.00	-9.73														
WRPH815	2	36	8	4.9	N	86	43	41.7	W	12.4	93.1	468.9500	66.49	-82.83	-16.5	-32.86	-103.44	-2.00	-9.83														
WRMC824	2	35	59	20	N	86	49	25.9	W	17.3	167.5	469.1625	65.01	-78.59	-16.5	-30.08	-106.34	-2.00	-9.84														
KJNF400	2	36	28	42.2	N	86	53	14	W	37.5	357.0	469.7750	63.59	-70.45	-16.5	-23.36	-113.07	-2.00	-9.94														
WQJ135	1	36	14	0.5	N	86	18	31.5	W	51.1	78.2	469.8125	66.43	-70.66	-16.5	-20.74	-115.76	-2.00	-10.00														
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	468.5625	66.41	-90.35	-16.5	-40.44	-96.05	-2.00	-10.03														
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	469.7250	63.82	-70.24	-16.5	-22.92	-113.61	-2.00	-10.04														
WRT085	2	35	35	44.5	N	86	55	15	W	191.9	24	469.4500	62.61	-73.48	-16.5	-27.37	-109.19	-2.00	-10.07														
WRVX997	14	36	9	47	N	86	46	40.8	W	8.3	72.5	468.7500	66.39	-86.56	-16.5	-36.66	-99.95	-2.00	-10.14														
WRPG259	1	35	55	35.9	N	86	31	13.9	W	127.4	39.1	469.4750	66.25	-72.97	-16.5	-23.21	-113.43	-2.00	-10.16														
WQSU632	1	36	14	8	N	86	45	32	W	14.2	42.2	469.0125	66.12	-81.66	-16.5	-32.04	-104.62	-2.00	-10.18														
WRPH819	4	35	53	20.8	N	86	34	2	W	38.8	136.1	469.4750	66.15	-72.97	-16.5	-23.32	-113.36	-2.00	-10.20														
WRP265	1	35	52	48.1	N	86	34	46.9	W	38.7	138.4	469.4750	66.12	-72.97	-16.5	-23.34	-113.34	-2.00	-10.20														
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	469.0625	66.38	-80.64	-16.5	-30.76	-105.92	-2.00	-10.21														
WQNE407	2	36	11	3.6	N	86	26	44.5	W	38.1	82.6	469.4500	66.44	-73.48	-16.5	-23.53	-113.20	-2.00	-10.25														
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	469.1875	58.37	-78.08	-16.5	-36.20	-100.56	-2.00	-10.29														
WREF471	1	36	7	35.4	N	86	46	36.7	W	8.1	101.3	468.7250	66.43	-87.02	-16.5	-37.09	-99.74	-2.00	-10.36														
WREF473	1	36	7	35.4	N	86	46	36.7	W	8.1	101.3	468.7250	66.43	-87.02	-16.5	-37.09	-99.74	-2.00	-10.36														
WQTY877	2	36	8	32.9	N	86	45	9.2	W	10.2	88.9	468.8250	66.50	-85.17	-16.5	-35.16	-101.74	-2.00	-10.44														
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	469.6750	63.82	-70.73	-16.5	-23.41	-113.61	-2.00	-10.53														
WRP265	4	35	56	28.2	N	86	28	49.7	W	41.2	122.6	469.4750	66.29	-72.97	-16.5	-23.18	-113.88	-2.00	-10.58														
WQJ135	1	35	53	5.8	N	86	25	51	W	48.4	125.9	469.9750	66.27	-71.59	-16.5	-21.82	-115.29	-2.00	-10.62														
WRP260	3	35	53	44.5	N	86	31	18	W	41.2	131.3	469.4750	66.21	-72.97	-16.5	-23.26	-113.88	-2.00	-10.65														
WQTM253	2	35	53	9.6	N	86	21	17.8	W	54	121.5	469.8250	66.30	-70.73	-16.5	-20.94	-116.24	-2.00	-10.68														
WQJ135	1	36	14	0.5	N	86	18	31.5	W	51.1																							

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

SORTED																				LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)					
WRPG265	6	35	47	58.2 N	86	34	3.6 W			46.4	144.7	469.4750	66.02	-72.97	-16.5	-23.45	-114.91	-2.00	-11.88					
WQOB999	14	36	11	9.3 N	86	19	33.4 W			48.8	83.9	469.4750	66.45	-72.97	-16.5	-23.01	-115.35	-2.00	-11.88					
WRPG262	3	35	50	6.5 N	86	29	42.3 W			47.6	135.5	469.4750	66.16	-72.97	-16.5	-23.31	-115.13	-2.00	-11.96					
WQYQ930	2	35	56	44.9 N	86	51	24.9 W			21.7	177.9	469.2000	64.19	-77.82	-16.5	-30.13	-108.31	-2.00	-11.96					
WRM2209	1	35	38	33.1 N	86	38	43.6 W			58.8	160.2	469.7750	65.47	-70.45	-16.5	-21.47	-116.98	-2.00	-11.96					
WOLF442	2	36	38	22.7 N	86	35	3.6 W			60.8	24.3	469.7125	65.65	-70.36	-16.5	-21.21	-117.26	-2.00	-11.99					
WRPH867	5	35	58	6.9 N	86	21	49.2 W			49.1	112.9	469.4750	66.37	-72.97	-16.5	-23.10	-115.40	-2.00	-12.02					
WRPG262	6	35	56	47.8 N	86	22	39.5 W			49	116.1	469.4750	66.34	-72.97	-16.5	-23.13	-115.39	-2.00	-12.03					
WPJ400	2	36	16	4.9 N	86	47	44.7 W			15.4	23.9	468.9750	65.61	-82.39	-16.5	-33.28	-105.32	-2.00	-12.13					
WQYR676	1	36	0	15.5 N	86	31	35.1 W			34.1	116.4	469.2875	66.34	-76.26	-16.5	-26.42	-112.23	-2.00	-12.17					
WQJW941	1	35	46	49.3 N	86	21	43 W			60.5	131.3	469.9125	66.21	-71.24	-16.5	-21.52	-117.23	-2.00	-12.26					
WRPG260	2	35	48	36.6 N	86	30	10.7 W			49.2	138.3	469.4750	66.12	-72.97	-16.5	-23.34	-115.42	-2.00	-12.28					
WQVE463	1	36	4	28 N	86	55	17 W			8.9	214.2	469.0875	58.37	-80.13	-16.5	-38.25	-100.56	-2.00	-12.34					
WRBQ360	2	36	9	15.2 N	86	48	10 W			5.8	75.2	468.4875	66.42	-91.89	-16.5	-41.97	-96.83	-2.00	-12.34					
WNBQ788	11	35	46	1.2 N	86	23	38 W			59.4	134.3	469.9500	66.18	-71.45	-16.5	-21.77	-117.07	-2.00	-12.35					
WOLF442	3	36	38	22.7 N	86	35	3.6 W			60.8	24.3	469.6750	65.65	-70.73	-16.5	-21.58	-117.26	-2.00	-12.36					
WQYR625	2	36	9	12.5 N	86	48	32.3 W			5.3	74.5	468.4500	66.41	-92.72	-16.5	-42.81	-96.05	-2.00	-12.40					
WRPG259	5	35	54	35.3 N	86	22	28.5 W			51.1	120.0	469.4750	66.30	-72.97	-16.5	-23.16	-115.75	-2.00	-12.43					
WRPG264	1	35	54	35.6 N	86	22	32.4 W			51.1	120.1	469.4750	66.30	-72.97	-16.5	-23.16	-115.75	-2.00	-12.43					
WQGG952	2	36	13	18.2 N	86	44	38 W			14.2	50.5	468.8875	66.22	-84.01	-16.5	-34.29	-104.62	-2.00	-12.44					
WQGG952	3	36	13	18.2 N	86	44	38 W			14.2	50.5	468.8875	66.22	-84.01	-16.5	-34.29	-104.62	-2.00	-12.44					
WRPG265	3	35	48	31.4 N	86	29	6.1 W			50.4	137.0	469.4750	66.14	-72.97	-16.5	-23.33	-115.63	-2.00	-12.48					
WQZB443	2	36	38	27.4 N	86	33	42.4 W			61.8	26.0	469.8375	65.73	-70.81	-16.5	-21.58	-117.41	-2.00	-12.50					
WRKB242	2	36	38	27.5 N	86	33	42.5 W			61.8	26.0	469.8375	65.73	-70.81	-16.5	-21.58	-117.41	-2.00	-12.50					
WQZT608	2	36	9	26.7 N	86	46	25.2 W			8.5	77.4	468.6375	66.42	-88.81	-16.5	-38.89	-100.16	-2.00	-12.58					
WQW1531	1	36	12	1 N	86	44	21 W			13.1	59.7	468.8375	66.30	-84.94	-16.5	-35.14	-103.92	-2.00	-12.58					
WQUM969	2	36	9	1.5 N	86	48	7.7 W			5.8	79.4	468.4750	66.43	-92.16	-16.5	-42.23	-96.83	-2.00	-12.59					
WQJQ307	2	36	10	3.2 N	86	48	25 W			6.1	60.5	468.5000	66.30	-91.63	-16.5	-41.83	-97.27	-2.00	-12.63					
WOLF442	3	36	38	22.7 N	86	35	3.6 W			60.8	24.3	469.6750	65.65	-71.02	-16.5	-21.87	-117.27	-2.00	-12.65					
WREP471	1	36	7	35.4 N	86	46	36.7 W			8.1	101.3	468.6125	66.43	-89.33	-16.5	-39.39	-99.74	-2.00	-12.66					
WREP473	1	36	7	35.4 N	86	46	36.7 W			8.1	101.3	468.6125	66.43	-89.33	-16.5	-39.39	-99.74	-2.00	-12.66					
WRQM321	2	35	59	23.2 N	86	34	37.1 W			30.9	122.8	469.2125	66.29	-77.56	-16.5	-27.77	-111.38	-2.00	-12.67					
WRM1952	2	36	9	16.6 N	86	47	38.5 W			6.6	76.6	468.5250	66.42	-91.12	-16.5	-41.20	-97.96	-2.00	-12.69					
WRDK577	5	35	44	8.2 N	86	39	2.7 W			49	156.7	469.4750	65.65	-72.97	-16.5	-23.82	-115.39	-2.00	-12.72					
WPPY736	3	36	22	42.6 N	87	2	18 W			30.6	329.7	469.7875	59.08	-70.52	-16.5	-27.94	-111.30	-2.00	-12.75					
WRP1819	2	35	46	7.3 N	86	31	15.6 W			51.7	143.0	469.4750	66.03	-72.97	-16.5	-23.43	-115.85	-2.00	-12.80					
WRPH867	2	35	43	44.7 N	86	40	19.7 W			48.9	159.1	469.4750	65.53	-72.97	-16.5	-23.94	-115.37	-2.00	-12.83					
WQVE463	1	36	4	28 N	86	55	17 W			8.9	214.2	469.0625	58.37	-80.64	-16.5	-38.76	-100.56	-2.00	-12.85					
WRAY764	2	35	57	5.5 N	86	29	7.5 W			40.2	121.5	469.3375	66.30	-75.48	-16.5	-25.68	-113.66	-2.00	-12.86					
WQW1530	1	35	43	27.7 N	86	43	10 W			67.6	133.1	469.6625	66.19	-70.86	-16.5	-21.16	-118.18	-2.00	-12.86					
WRMF451	4	36	1	48.7 N	86	33	39.9 W			30	114.1	469.1875	66.35	-78.08	-16.5	-28.22	-111.12	-2.00	-12.87					
WRVS557	1	35	50	15.3 N	86	24	26.4 W			53.3	129.1	469.4750	66.23	-72.97	-16.5	-23.23	-116.12	-2.00	-12.87					
WQZE593	1	35	50	8 N	86	24	28 W			53.4	129.4	469.4750	66.23	-72.97	-16.5	-23.23	-116.13	-2.00	-12.89					
WRPG264	2	35	43	38.3 N	86	38	34.7 W			156.4	156.4	469.4750	65.65	-72.97	-16.5	-23.82	-115.58	-2.00	-12.91					
WQZB862	1	36	7	6.8 N	86	40	17.4 W			17.6	86.0	468.9500	66.44	-82.85	-16.5	-32.91	-106.48	-2.00	-12.92					
WQUS251	4	36	42	16.5 N	86	31	1.2 W			69.9	26.3	469.7250	65.73	-70.24	-16.5	-21.01	-118.48	-2.00	-13.00					
WQVL563	2	36	9	26 N	86	46	37 W			8.2	77.1	468.6000	66.42	-89.58	-16.5	-39.66	-99.84	-2.00	-13.04					
WQW1530	1	35	43	27 N	86	19	10 W			67.6	133.1	469.6375	66.19	-71.10	-16.5	-21.41	-118.18	-2.00	-13.11					
WRPG235	3	35	54	3 N	86	19	10.6 W			56	118.4	469.4750	66.32	-72.97	-16.5	-23.14	-116.55	-2.00	-13.21					
WRPG235	4	35	54	1.1 N	86	19	9.5 W			56	118.4	469.4750	66.32	-72.97	-16.5	-23.14	-116.55	-2.00	-13.21					
WQTT508	2	36	29	55.2 N	86	52	11.7 W			39.7	359.4	469.4500	65.82	-73.48	-16.5	-26.16	-113.56	-2.00	-13.23					
WRJC926	2	36	0	33 N	86	29	17.5 W			37	113.2	469.2625	66.36	-76.65	-16.5	-26.79	-112.94	-2.00	-13.25					
WRPG262	4	35	44	4.6 N	86	31	16.2 W			54.7	145.4	469.4750	65.99	-72.97	-16.5	-23.47	-116.34	-2.00	-13.33					
WQZE593	3	35	44	4.4 N	86	31	15.8 W			54.8	145.4	469.4750	65.99	-72.97	-16.5	-23.47	-116.36	-2.00	-13.35					
WRP1819	5	35	51	32.8 N	86	20	28.6 W			56.7	123.4	469.4750	66.28	-72.97	-16.5	-23.18	-116.65	-2.00	-13.36					
WQVE463	1	36	4	28 N	86	55	17 W			8.9	214.2	469.0375	58.37	-81.15	-16.5	-39.27	-100.56	-2.00	-13.36					
WRAN907	2	35	51	39.9 N																				

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WNNG651	2	36	41	18 N		86	29	11 W		69.6	29.0	469.9500	65.84	-71.45	-16.5	-22.11	-118.44	-2.00	-14.06														
WRD1267	2	36	38	9 N		86	53	48 W		55	357.1	469.9250	63.59	-71.31	-16.5	-24.22	-116.40	-2.00	-14.13														
WRBT804	2	36	13	10.1 N		86	25	35 W		40.5	77.4	469.2500	66.42	-76.84	-16.5	-26.92	-113.73	-2.00	-14.17														
WQUQ634	3	35	49	6 N		86	53	19.4 W		35.8	183.3	469.3625	66.39	-75.09	-16.5	-28.00	-112.66	-2.00	-14.18														
WQZX696	14	36	21	5.6 N		86	5	32.9 W		73.3	71.1	469.5750	66.39	-71.72	-16.5	-21.83	-118.89	-2.00	-14.23														
WRTK332	2	35	47	41.5 N		86	22	2.2 W		59.1	130.5	469.4500	66.23	-73.48	-16.5	-23.76	-117.01	-2.00	-14.29														
WSDA416	1	35	32	44.8 N		86	38	4.4 W		69.2	162.5	469.6125	65.35	-71.35	-16.5	-22.50	-118.39	-2.00	-14.40														
WZWS91	3	36	16	12.2 N		86	52	18 W		14.3	357.8	468.9250	63.59	-83.31	-16.5	-36.23	-104.68	-2.00	-14.44														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	468.8625	66.33	-84.47	-16.5	-34.64	-106.28	-2.00	-14.45														
WRJ641	5	36	31	47.5 N		86	52	58.8 W		43.2	357.9	469.4375	63.59	-73.73	-16.5	-26.65	-114.29	-2.00	-14.46														
WQPL818	2	36	10	3 N		86	46	24 W		8.8	70.3	468.5625	66.38	-90.35	-16.5	-40.47	-100.46	-2.00	-14.47														
WRPG259	3	35	45	29.6 N		86	20	6.1 W		64	131.5	469.4750	66.21	-72.97	-16.5	-23.26	-117.71	-2.00	-14.48														
WQTD530	1	36	5	10 N		86	41	41 W		16.5	111.6	468.8375	66.38	-84.94	-16.5	-35.06	-105.92	-2.00	-14.51														
WRPH867	4	35	41	59.3 N		86	25	9.3 W		63.4	140.5	469.4750	66.09	-72.97	-16.5	-23.38	-117.62	-2.00	-14.52														
WRPG262	1	35	56	18.4 N		86	10	33.7 W		66.1	109.7	469.4750	66.39	-72.97	-16.5	-23.08	-117.99	-2.00	-14.58														
WPGH743	3	35	59	22.2 N		86	49	21 W		17.2	167.0	468.9250	65.01	-83.31	-16.5	-34.81	-106.28	-2.00	-14.62														
WQZ4443	2	36	38	27.8 N		86	33	42.4 W		61.8	23.3	469.4750	65.73	-72.97	-16.5	-23.74	-117.40	-2.00	-14.66														
WRKB242	2	36	38	27.5 N		86	33	42.5 W		61.8	26.0	469.4750	65.73	-72.97	-16.5	-23.74	-117.40	-2.00	-14.66														
KNAF645	3	36	2	59 N		86	49	59 W		10.5	163.9	468.6750	65.28	-88.05	-16.5	-39.27	-101.99	-2.00	-14.79														
WRVF276	2	35	47	4.3 N		86	30	2.6 W		51.4	140.2	469.3625	66.09	-75.09	-16.5	-25.49	-115.80	-2.00	-14.81														
WRMV933	1	36	44	2 N		86	38	59 W		68.6	16.3	469.5750	65.21	-71.72	-16.5	-23.01	-118.31	-2.00	-14.83														
WRVAV306	2	35	51	35.8 N		86	24	27.2 W		51.7	127.0	469.3500	66.25	-75.28	-16.5	-25.53	-115.85	-2.00	-14.90														
WQAZ444	5	36	16	44 N		86	40	12.6 W		23.3	48.7	468.9875	66.20	-82.16	-16.5	-32.45	-108.92	-2.00	-14.90														
WRPB19	3	35	49	5.3 N		86	13	31.6 W		67.9	121.7	469.4750	66.30	-72.97	-16.5	-23.17	-118.22	-2.00	-14.91														
WRPH867	1	35	45	3.3 N		86	17	12.8 W		67.8	129.6	469.4750	66.23	-72.97	-16.5	-23.23	-118.21	-2.00	-14.96														
WRPG235	5	35	41	56.3 N		86	21	18.1 W		67.3	136.8	469.4750	66.15	-72.97	-16.5	-23.32	-118.14	-2.00	-14.98														
WQZ593	4	35	41	52 N		86	21	19 W		67.4	136.8	469.4750	66.15	-72.97	-16.5	-23.32	-118.16	-2.00	-14.99														
KNFN902	2	36	41	44.2 N		86	8	54.9 W		89	45.9	469.8000	66.16	-70.59	-16.5	-20.93	-120.58	-2.00	-15.02														
WRPM299	2	36	41	44.2 N		86	8	54.9 W		89	45.9	469.8000	66.16	-70.59	-16.5	-20.93	-120.58	-2.00	-15.02														
WRPG259	4	35	39	29 N		86	25	21.7 W		66.8	143.3	469.4750	66.03	-72.97	-16.5	-23.43	-118.08	-2.00	-15.03														
WRJ641	3	35	39	33.2 N		87	1	59.1 W		55.5	195.8	469.6875	62.04	-70.61	-16.5	-25.07	-116.47	-2.00	-15.06														
WRKN775	2	36	2	46.5 N		86	24	26 W		42.6	104.2	469.2250	66.42	-77.31	-16.5	-27.39	-114.17	-2.00	-15.08														
WQBC780	3	36	45	49 N		86	11	2 W		92.2	41.2	469.7500	66.10	-70.30	-16.5	-20.70	-120.88	-2.00	-15.09														
WQBC720	1	35	50	36.9 N		86	22	14.4 W		55.5	136.4	469.3750	66.26	-74.89	-16.5	-25.13	-116.47	-2.00	-15.12														
WRDB988	2	36	1	59.2 N		86	46	35.4 W		14.4	146.2	468.7625	65.97	-86.32	-16.5	-36.85	-104.74	-2.00	-15.12														
WRCS254	2	36	9	51.2 N		86	46	43.9 W		8.2	71.5	468.5000	66.39	-91.63	-16.5	-41.74	-99.84	-2.00	-15.12														
WRTR727	6	35	29	39.8 N		86	24	40.4 W		82.6	150.2	469.6375	65.87	-71.10	-16.5	-21.73	-119.92	-2.00	-15.17														
WQQL335	1	36	14	0.5 N		86	18	31.5 W		51.1	78.2	469.3125	66.43	-75.87	-16.5	-25.94	-115.75	-2.00	-15.21														
WRPG260	6	35	39	35.9 N		86	23	14 W		68.6	141.0	469.4750	66.07	-72.97	-16.5	-23.39	-118.31	-2.00	-15.22														
WRPB19	1	35	39	35.8 N		86	23	16.7 W		68.6	141.0	469.4750	66.07	-72.97	-16.5	-23.39	-118.31	-2.00	-15.22														
WQW1530	1	35	43	27 N		86	19	10 W		67.6	133.1	469.4625	66.19	-73.22	-16.5	-23.53	-118.18	-2.00	-15.23														
WQW941	1	35	46	49.3 N		86	21	43 W		60.5	131.3	469.4125	66.21	-74.24	-16.5	-24.53	-117.22	-2.00	-15.27														
WRPH867	6	35	41	8.9 N		86	19	17.8 W		70.4	135.8	469.4750	66.16	-72.97	-16.5	-23.31	-118.53	-2.00	-15.36														
WQZ593	5	35	38	22.2 N		86	23	53.9 W		69.8	142.8	469.4750	66.05	-72.97	-16.5	-23.42	-118.46	-2.00	-15.39														
WRPG265	2	35	38	23.1 N		86	23	53.6 W		69.8	142.8	469.4750	66.05	-72.97	-16.5	-23.42	-118.46	-2.00	-15.39														
WPPY736	3	36	22	42.6 N		87	2	18 W		30.6	329.7	469.4625	59.08	-73.22	-16.5	-30.64	-111.30	-2.00	-15.46														
WRPG260	4	35	43	29 N		86	14	45.6 W		72.5	129.5	469.4750	66.23	-72.97	-16.5	-23.23	-118.79	-2.00	-15.54														
WRKN775	2	36	2	46.5 N		86	24	26 W		42.6	104.2	469.2000	66.42	-77.82	-16.5	-27.90	-114.17	-2.00	-15.59														
WQQL335	1	36	14	0.5 N		86	18	31.5 W		51.1	78.2	469.2875	66.43	-76.26	-16.5	-26.33	-115.75	-2.00	-15.60														
WRQ617	10	36	9	56.8 N		86	46	6.9 W		9.2	72.3	468.5250	66.39	-91.12	-16.5	-41.23	-100.84	-2.00	-15.60														
WRHY470	1	36	9	6.1 N		86	47	35.3 W		6.6	79.4	468.3875	66.																				

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

SORTED																				LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)					
WQQT469	2	35	57	59.7	N	86	29	21.2	W	39	119.7	469.0875	66.32	-80.13	-16.5	-30.31	-113.40	-2.00	-17.23					
WNYH487	1	36	8	44.2	N	86	41	31	W	15.6	88.0	468.6625	66.50	-88.30	-16.5	-38.30	-105.43	-2.00	-17.26					
WQWQ941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	469.2875	66.21	-76.26	-16.5	-26.55	-117.21	-2.00	-17.28					
WNYK915	3	36	10	3.7	N	86	47	23.8	W	7.4	66.2	468.3625	66.35	-94.70	-16.5	-44.85	-98.95	-2.00	-17.34					
WQYC257	4	36	9	5.0	N	86	47	5.4	W	7.7	70.5	468.3750	66.38	-94.42	-16.5	-44.54	-99.29	-2.00	-17.37					
WRC403	2	35	58	11.7	N	86	31	12.3	W	36.4	121.4	469.0500	66.30	-80.88	-16.5	-31.09	-112.80	-2.00	-17.42					
WQTY877	2	36	8	32.9	N	86	45	9.2	W	10.2	88.9	468.4750	66.50	-92.16	-16.5	-42.16	-101.74	-2.00	-17.43					
WQUW204	1	36	29	21.3	N	86	51	35.5	W	38.7	0.8	469.1875	63.93	-78.08	-16.5	-30.65	-113.33	-2.00	-17.50					
WRKN775	2	36	2	46.5	N	86	24	26	W	42.6	104.2	469.1000	66.42	-79.87	-16.5	-29.95	-114.16	-2.00	-17.64					
WNYK915	1	36	10	27.2	N	86	47	28	W	7.7	60.9	468.3625	66.30	-94.70	-16.5	-44.90	-99.29	-2.00	-17.73					
WRAN907	2	35	51	39.9	N	86	25	30.7	W	50.4	128.0	469.1750	66.24	-78.33	-16.5	-28.59	-115.63	-2.00	-17.74					
WQQT469	2	35	57	59.7	N	86	29	21.2	W	39	119.7	469.0625	66.32	-80.64	-16.5	-30.82	-113.40	-2.00	-17.74					
WQV931	8	36	35	54.2	N	86	31	48.2	W	59	30.5	469.2625	65.87	-76.65	-16.5	-27.28	-117.00	-2.00	-17.79					
WRJ232	3	35	57	11.1	N	86	22	44.2	W	48.5	115.4	469.1500	66.35	-78.84	-16.5	-29.00	-115.29	-2.00	-17.81					
WRBV377	3	36	11	7.4	N	86	16	14.7	W	53.7	84.5	469.1875	66.46	-78.08	-16.5	-28.11	-116.18	-2.00	-17.81					
WRAC528	2	36	0	1	N	86	30	7	W	36.3	115.5	469.0250	66.35	-81.41	-16.5	-31.56	-112.77	-2.00	-17.86					
WQW5708	3	36	10	56.4	N	86	17	5.9	W	84.8	469.1750	66.46	-78.33	-16.5	-28.37	-115.96	-2.00	-17.86						
WRMG241	1	36	9	42.1	N	86	43	59	W	12.1	78.9	468.5250	66.43	-91.12	-16.5	-41.19	-103.22	-2.00	-17.95					
WPGH743	5	35	55	10.5	N	86	42	55.7	W	28	151.2	468.9250	65.84	-83.31	-16.5	-33.98	-110.52	-2.00	-18.02					
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	469.7750	60.15	-70.45	-16.5	-26.80	-117.75	-2.00	-18.06					
WQVE464	1	35	50	3.0	N	86	23	27	W	54.2	127.8	469.1875	66.25	-78.08	-16.5	-28.32	-116.26	-2.00	-18.10					
WQXC652	2	36	26	28.4	N	86	2	16.9	W	36.8	335.2	469.3313	60.36	-75.57	-16.5	-31.72	-112.90	-2.00	-18.13					
WRKA728	1	36	13	1.3	N	86	19	20.9	W	49.6	80.0	469.1375	66.44	-79.10	-16.5	-29.16	-115.49	-2.00	-18.17					
WQAU829	3	36	19	15.2	N	86	42	49	W	24.2	34.2	468.8375	65.97	-84.94	-16.5	-35.46	-109.25	-2.00	-18.24					
WQOQ229	2	36	7	56.5	N	86	47	41	W	6.4	98.4	468.2625	66.44	-96.97	-16.5	-47.02	-97.68	-2.00	-18.25					
WQQT469	4	35	57	5.0	N	86	29	25.5	W	39.1	120.1	469.0375	66.30	-81.15	-16.5	-31.34	-113.42	-2.00	-18.29					
WRNS201	2	35	42	16.6	N	86	19	50.5	W	68.4	135.0	469.2875	66.16	-76.26	-16.5	-26.60	-118.28	-2.00	-18.40					
WRKN775	3	36	2	46.5	N	86	24	26	W	42.6	104.2	469.0625	66.42	-80.64	-16.5	-30.72	-114.16	-2.00	-18.41					
WQSC842	2	36	48	26.1	N	87	8	23.8	W	78.4	340.7	469.7250	61.39	-70.24	-16.5	-25.44	-119.47	-2.00	-18.43					
WQRW477	2	35	47	53.4	N	86	23	0.8	W	57.8	131.2	469.2000	66.21	-77.82	-16.5	-28.11	-116.82	-2.00	-18.45					
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	469.8500	60.15	-70.88	-16.5	-27.23	-117.75	-2.00	-18.49					
WQRM718	2	36	11	1.7	N	86	52	41.4	W	4.9	346.7	468.3375	62.18	-95.27	-16.5	-49.59	-95.37	-2.00	-18.50					
WQQA563	33	36	10	45.8	N	86	46	38.7	W	9	61.5	468.3875	66.32	-94.14	-16.5	-44.32	-100.65	-2.00	-18.50					
WQUW204	1	36	29	21.3	N	86	51	35.5	W	38.7	0.8	469.1875	63.93	-79.10	-16.5	-31.67	-113.33	-2.00	-18.53					
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	468.7625	58.37	-86.32	-16.5	-44.45	-100.56	-2.00	-18.54					
WQVE464	1	35	50	3.0	N	86	23	27	W	54.2	127.8	469.1625	66.25	-78.59	-16.5	-28.83	-116.26	-2.00	-18.61					
WPXE452	2	36	9	33.3	N	86	46	42	W	8.1	75.4	468.3375	66.42	-95.27	-16.5	-45.35	-99.73	-2.00	-18.62					
WQYU469	2	36	42	21.3	N	87	10	19	W	68.5	336.5	469.8750	60.55	-71.02	-16.5	-26.97	-118.30	-2.00	-18.79					
WNRN200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	468.6375	66.33	-88.81	-16.5	-38.98	-106.28	-2.00	-18.79					
WPIU909	3	36	7	30	N	86	40	36	W	17.1	65.9	468.5250	66.47	-89.07	-16.5	-39.10	-106.23	-2.00	-18.86					
WQY331	2	35	29	13.3	N	86	25	46	W	82.6	151.5	469.3750	65.84	-74.89	-16.5	-25.55	-119.92	-2.00	-18.99					
WQVR294	2	35	54	25.9	N	86	24	3.7	W	49.2	121.7	469.1000	66.30	-79.87	-16.5	-30.07	-115.41	-2.00	-19.01					
WQVG483	4	35	54	50.2	N	86	49	17	W	25.5	171.0	468.8875	64.70	-84.01	-16.5	-35.81	-109.70	-2.00	-19.04					
WRAY764	2	35	57	5.5	N	86	29	7.5	W	40.2	121.5	469.0125	66.30	-81.66	-16.5	-31.86	-113.66	-2.00	-19.05					
WRPA592	2	36	25	5.2	N	86	44	30	W	32.7	134.8	468.9625	65.41	-82.62	-16.5	-33.71	-111.86	-2.00	-19.10					
WRAX651	1	36	28	30.5	N	86	51	18.4	W	28.1	1.4	469.0875	64.03	-80.13	-16.5	-32.61	-112.96	-2.00	-19.10					
WQWL921	2	35	46	52.7	N	86	21	35.1	W	60.6	131.1	469.1875	66.21	-78.08	-16.5	-28.37	-117.23	-2.00	-19.11					
WQVE464	1	35	50	3.0	N	86	23	27	W	54.2	127.8	469.1375	66.25	-79.10	-16.5	-29.35	-116.26	-2.00	-19.13					
WNRQ788	10	35	50	13.2	N	86	24	27	W	53.3	129.2	469.1250	66.23	-79.36	-16.5	-29.62	-116.11	-2.00	-19.26					
WQX820	1	36	9	45.7	N	86	46	54.5	W	7.9	72.1	468.3000	66.39	-96.12	-16.5	-46.22	-99.51	-2.00	-19.28					
WQNN882	2	36	19	22.9	N	86	37	12.8	W	37	95.5	468.8625	66.17	-84.79	-16.5	-34.79	-111.06	-2.00	-19.38					
WRCC983	2	36	24	30.5	N	87	1	30.5	W	33	334.4	469.2125	60.15	-77.56	-16.5	-33.92	-111.95	-2.00	-19.39					
WQUR785	2	36	48	57.2	N	87	7	40	W	78.5	342.7	469.9625	61.60	-71.52	-16.5	-26.42	-119.49	-2.00	-19.42					
WNUN714	2	36	8	33.2	N	86	48	3	W	5.8	88.1	468.1500	66.50	-99.07	-16.5	-49.07	-96.83	-2.00	-19.43					
WRTC539	1	36	31	1.5	N	87	13	10.6	W	52.8	323.2	469.9813	57.62	-71.02	-16.5	-29.90	-116.04	-2.00	-19.45					
WPMP723	3	36	3	34.5	N	86	25	39.9	W	40.4	102.8	468.9875	66.49	-82.16	-16.5	-32.23	-113.70	-2.00</						

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)							
WRIA234	2	36	4	43.2 N		86	40	56.8 W		17.9	112.7	468.5500	66.37	-90.61	-16.5	-40.74	-106.62	-2.00	-20.90							
WQOE521	1	36	28	2.9 N		86	28	37.7 W		50.3	43.7	469.0250	66.14	-81.41	-16.5	-31.77	-115.61	-2.00	-20.90							
WQWF316	1	36	33	13.1 N		86	57	35.5 W		46.6	349.6	469.1625	62.61	-78.59	-16.5	-32.48	-114.94	-2.00	-20.94							
WINDA91	2	36	7	38.2 N		86	41	12.7 W		16.2	95.3	468.5000	66.47	-91.63	-16.5	-41.66	-105.75	-2.00	-20.95							
WQVM626	2	36	34	22.5 N		87	17	27.7 W		17.3	321.7	469.8250	57.08	-70.73	-16.5	-30.16	-117.34	-2.00	-21.01							
WQY911	2	36	7	30.8 N		86	40	4.8 W		95.5	468.5375	66.07	-90.86	-16.5	-40.89	-106.62	-2.00	-21.05								
WQXA961	2	36	9	57.1 N		86	46	46.6 W		8.2	70.1	468.2375	66.38	-97.56	-16.5	-47.68	-99.84	-2.00	-21.06							
WQUN476	2	36	36	14.4 N		87	15	37.5 W		62.4	325.6	469.5750	58.13	-71.72	-16.5	-30.09	-117.49	-2.00	-21.09							
WREY596	2	36	39	47.2 N		87	10	36.4 W		64.3	334.5	469.4500	60.15	-73.48	-16.5	-29.83	-117.75	-2.00	-21.10							
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	468.3125	66.50	-95.83	-16.5	-45.83	-101.73	-2.00	-21.10							
WQWTS30	1	35	43	2.7 N		86	19	10.7 W		67.6	133.1	469.1375	66.19	-79.10	-16.5	-29.41	-118.17	-2.00	-21.11							
WPN5363	1	35	37	21.3 N		87	2	56.7 W		59.8	196.0	469.3125	61.89	-75.87	-16.5	-30.48	-117.11	-2.00	-21.11							
WQUC369	2	35	44	1.9 N		86	55	7.7 W		45.4	186.0	469.1125	63.23	-79.61	-16.5	-32.88	-114.72	-2.00	-21.13							
WQVE464	1	35	50	30.0 N		86	23	27.7 W		54.2	127.8	469.0375	66.25	-81.15	-16.5	-31.40	-116.25	-2.00	-21.18							
WRBK816	1	36	33	8.9 N		86	54	51.5 W		45.9	354.6	469.1125	63.23	-79.61	-16.5	-32.88	-114.81	-2.00	-21.22							
WNUN714	2	36	8	33.2 N		86	48	3.7 W		5.8	88.1	468.1000	66.50	-100.87	-16.5	-50.87	-96.83	-2.00	-21.24							
KVE523	3	36	34	22.5 N		87	17	27.7 W		61.3	321.7	469.5500	57.08	-70.98	-16.5	-30.40	-117.33	-2.00	-21.25							
WQYJ931	8	36	35	54.2 N		86	31	48.2 W		59	30.5	469.0875	65.87	-80.13	-16.5	-30.75	-116.99	-2.00	-21.27							
WRFU362	2	36	7	58.9 N		86	19	12.3 W		49.1	90.9	468.9750	66.52	-82.39	-16.5	-32.37	-115.39	-2.00	-21.29							
WRTC855	2	35	55	44.5 N		86	55	15.7 W		24	191.9	468.8500	62.61	-84.70	-16.5	-38.59	-109.17	-2.00	-21.30							
WQYG691	2	35	59	31.1 N		86	34	14.7 W		31.3	121.9	468.7750	66.30	-86.09	-16.5	-36.29	-111.48	-2.00	-21.30							
WRCM609	1	36	30	14.7 N		87	15	28.6 W		53.5	319.1	469.5750	56.55	-71.72	-16.5	-31.67	-116.15	-2.00	-21.33							
WQTD530	1	36	5	10.0 N		86	41	41.7 W		16.5	111.6	468.4875	66.38	-91.89	-16.5	-42.01	-105.91	-2.00	-21.46							
WPN5363	1	35	37	21.3 N		87	2	56.7 W		59.8	196.0	469.2875	61.89	-76.26	-16.5	-30.87	-117.11	-2.00	-21.50							
WQXQ340	3	36	9	33.9 N		86	46	42.7 W		8.1	75.4	468.2125	66.42	-98.17	-16.5	-48.25	-99.73	-2.00	-21.52							
WRKN775	3	36	2	46.5 N		86	24	26.7 W		42.6	104.2	468.9000	66.42	-83.78	-16.5	-33.86	-114.16	-2.00	-21.55							
WQWTS30	1	35	43	27.9 N		86	19	10.7 W		67.6	133.1	469.1125	66.19	-79.61	-16.5	-29.92	-118.17	-2.00	-21.62							
WQVE464	1	35	50	30.0 N		86	23	27.7 W		54.2	127.8	469.0125	66.25	-81.66	-16.5	-31.91	-116.25	-2.00	-21.69							
WQZA724	1	35	59	45.1 N		86	36	12.1 W		28.6	124.3	468.7125	66.28	-87.28	-16.5	-37.50	-110.70	-2.00	-21.72							
WQAB846	1	36	42	27.9 N		86	34	33.9 W		58	22.3	469.1375	65.57	-79.10	-16.5	-30.03	-118.23	-2.00	-21.78							
WNUN714	2	36	8	33.2 N		86	48	3.7 W		5.8	88.1	468.0750	66.50	-101.47	-16.5	-51.47	-96.82	-2.00	-21.84							
WQUL931	1	35	53	5.8 N		86	25	51.7 W		48.4	125.9	468.9500	66.27	-82.85	-16.5	-33.08	-115.27	-2.00	-21.87							
WPN5363	1	35	37	21.3 N		87	2	56.7 W		59.8	196.0	469.2625	61.89	-76.63	-16.5	-31.26	-117.11	-2.00	-21.89							
WQNE407	2	36	31	3.6 N		86	26	44.5 W		86.6	44.5	468.8250	66.44	-85.17	-16.5	-35.22	-113.19	-2.00	-21.94							
WQUM756	1	36	7	51.8 N		86	46	1.5 W		8.9	97.0	468.2250	66.45	-97.87	-16.5	-47.91	-100.55	-2.00	-22.00							
WQRA380	2	36	47	38.9 N		87	23	10.5 W		86.2	327.5	469.7500	58.61	-70.30	-16.5	-28.19	-120.30	-2.00	-22.00							
WQUN946	5	36	9	30.9 N		86	46	33.6 W		8.3	76.4	468.2000	66.42	-98.47	-16.5	-48.55	-99.94	-2.00	-22.03							
WQRE664	1	36	1	2.2 N		86	31	0.7 W		34.3	113.6	468.7750	66.36	-86.09	-16.5	-36.23	-112.28	-2.00	-22.04							
WQWTS30	1	35	43	27.9 N		86	19	10.7 W		67.6	133.1	469.0875	66.19	-80.13	-16.5	-30.43	-118.17	-2.00	-22.13							
WFOQ892	2	36	48	57.2 N		87	7	40.7 W		78.5	342.7	469.4125	61.60	-74.24	-16.5	-29.15	-119.48	-2.00	-22.14							
WQOA563	33	36	10	45.8 N		86	46	38.7 W		9	61.5	468.2250	66.32	-97.87	-16.5	-48.05	-100.64	-2.00	-22.23							
WQAZ704	1	36	10	0.0 N		86	47	0.7 W		7.9	68.7	468.1750	66.37	-99.07	-16.5	-49.20	-99.51	-2.00	-22.25							
WQCI570	2	36	10	0.0 N		86	47	0.7 W		7.9	68.7	468.1750	66.37	-99.07	-16.5	-49.20	-99.51	-2.00	-22.25							
WPN5363	1	35	37	21.3 N		87	2	56.7 W		59.8	196.0	469.2375	61.89	-77.05	-16.5	-31.66	-117.11	-2.00	-22.29							
WRAY764	3	35	57	5.5 N		86	29	7.5 W		40.2	121.5	468.8375	66.30	-84.94	-16.5	-35.14	-113.65	-2.00	-22.32							
WRDM492	2	36	42	35.5 N		86	34	9.9 W		68.5	22.6	469.1125	65.57	-79.61	-16.5	-30.54	-118.29	-2.00	-22.36							
WNSR200	1	36	12	34.2 N		86	41	40.7 W		17.2	63.5	468.4625	66.33	-92.44	-16.5	-42.61	-106.27	-2.00	-22.42							
WQTU282	1	36	36	16.3 N		86	31	14.3 W		60	30.8	469.0375	65.87	-81.15	-16.5	-31.78	-117.14	-2.00	-22.44							
WNUN714	2	36	8	33.2 N		86	48	3.7 W		5.8	88.1	468.0500	66.50	-102.09	-16.5	-52.09	-96.82	-2.00	-22.46							
WPLX690	1	36	8	44.2 N		86	41	31.7 W		15.6	88.0	468.4125	66.50	-93.57	-16.5	-43.57	-105.43	-2.00	-22.53							
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	468.2500	66.50	-97.26	-16.5	-47.26	-101.73	-2.00	-22.53							
WQWB779	2	36	13	12.2 N		86	19	40.7 W		49.2	79.5	468.9125	66.43	-83.55	-16.5	-33.61	-115.41	-2.00	-22.55							
WQWTS30	1	35	43	27.9 N		86	19	10.7 W		67.6	133.1	469.0625	66.19	-80.64	-16.5	-30.95	-118.17	-2.00	-22.64							
WQTL947	2	36	11	3.2 N		86	30	35.4 W		32.4	81.3	468.7125	66.44	-87.28	-16.5	-37.34	-111.78	-2.00	-22.65							
KD26551	1	36	0	29.2 N		86	35	46.7 W		28.4	121.3	468.6625	66.30	-88.30	-16.5	-38.50	-110.63	-2.00	-22.67							
WQVP668	1	36	6	17.1 N		87	3	14.7 W		17.4	49.4	469.3250	66.													

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)							
WPQI708	2	36	27	8.7 N	87	22	16.4 W	57.1	307.5	469.6875	53.08	-70.63	-16.5	-34.03	-116.72	-2.00	-24.26									
WQTD049	4	36	30	3 N	86	52	9 W	39.9	359.5	468.8625	63.82	-84.47	-16.5	-37.15	-113.59	-2.00	-24.27									
WPNS363	1	35	37	21.3 N	87	2	56 W	59.8	196.0	469.1375	61.89	-79.10	-16.5	-33.71	-117.11	-2.00	-24.34									
WRNV664	2	35	34	36.3 N	86	26	43.6 W	73.2	148.8	469.0250	65.92	-81.41	-16.5	-31.98	-118.86	-2.00	-24.37									
WQYU469	2	36	42	21.3 N	87	10	19 W	68.5	336.5	469.2625	60.55	-76.65	-16.5	-32.60	-118.29	-2.00	-24.42									
WRAN286	2	36	37	14.8 N	87	15	48.8 W	64.1	326.4	469.3625	59.97	-75.09	-16.5	-33.21	-117.72	-2.00	-24.45									
WPQI708	2	36	27	8.7 N	87	22	16.4 W	57.1	307.5	469.6875	53.08	-70.63	-16.5	-34.27	-116.72	-2.00	-24.51									
WRCH702	2	36	16	40 N	87	3	55 W	23.5	310.4	469.1125	54.08	-79.61	-16.5	-42.03	-109.00	-2.00	-24.55									
WRWC305	1	36	9	44.2 N	86	38	57.3 W	19.6	82.9	468.4125	66.44	-93.57	-16.5	-43.63	-107.41	-2.00	-24.57									
WRV1871	1	35	55	54.2 N	86	54	41 W	23.6	190.1	468.6625	62.75	-88.30	-16.5	-42.05	-109.03	-2.00	-24.61									
WRDD602	2	36	37	30.9 N	87	15	24.4 W	64.2	327.1	469.3375	58.61	-75.48	-16.5	-33.36	-117.73	-2.00	-24.61									
WQW750	2	36	29	26.5 N	86	51	34 W	58.9	0.8	468.8250	63.93	-85.17	-16.5	-37.74	-113.35	-2.00	-24.62									
WQAZ704	1	36	10	0 N	86	47	0 W	7.9	68.7	468.0750	66.37	-101.47	-16.5	-51.60	-99.51	-2.00	-24.66									
WQCI570	2	36	10	0 N	86	47	0 W	7.9	68.7	468.0750	66.37	-101.47	-16.5	-51.60	-99.51	-2.00	-24.66									
WQTH648	3	36	18	36.5 N	86	38	57.8 W	27	45.8	468.5500	66.16	-90.61	-16.5	-40.95	-110.19	-2.00	-24.67									
WQZ1443	2	36	38	27.4 N	86	33	42.4 W	61.8	26.0	468.9375	65.73	-83.08	-16.5	-33.85	-117.39	-2.00	-24.77									
WRKB242	2	36	38	27.5 N	86	33	42.5 W	61.8	26.0	468.9375	65.73	-83.08	-16.5	-33.85	-117.39	-2.00	-24.77									
WNUN714	1	36	8	33.2 N	86	48	3 W	5.8	88.1	467.9750	66.50	-104.45	-16.5	-54.45	-96.82	-2.00	-24.82									
WNUN714	2	36	8	33.2 N	86	48	3 W	5.8	88.1	467.9750	66.50	-104.45	-16.5	-54.45	-96.82	-2.00	-24.82									
WQZC684	2	36	35	4.2 N	87	17	37 W	62.4	322.3	469.3875	57.35	-74.70	-16.5	-33.84	-117.48	-2.00	-24.85									
WPNS363	1	35	37	21.3 N	87	2	56 W	59.8	196.0	469.1125	61.89	-79.61	-16.5	-34.22	-117.11	-2.00	-24.86									
WPMMA435	2	36	32	1.2 N	87	25	44 W	66.8	311.0	469.9000	54.38	-71.18	-16.5	-33.28	-118.09	-2.00	-24.88									
WQVE464	1	35	50	30 N	86	23	27 W	54.2	127.8	468.8375	66.25	-84.94	-16.5	-35.18	-116.25	-2.00	-24.96									
WQWNA35	2	36	7	45.7 N	86	24	20.8 W	41.4	91.6	468.7000	66.51	-87.53	-16.5	-37.52	-113.91	-2.00	-24.96									
WQYQ930	3	35	56	44.9 N	86	51	24.9 W	21.7	177.9	468.5375	64.19	-90.86	-16.5	-43.17	-108.29	-2.00	-25.00									
WPZX13	2	36	7	30 N	86	40	36 W	17.1	95.9	468.3375	66.47	-95.27	-16.5	-45.30	-106.22	-2.00	-25.06									
WQTH457	2	36	12	53.6 N	87	19	39.8 W	42.4	281.4	469.7844	49.53	-70.50	-16.5	-37.47	-114.14	-2.00	-25.11									
WQTH457	2	36	12	53.6 N	87	19	39.8 W	42.4	281.4	469.7875	49.53	-70.52	-16.5	-37.49	-114.14	-2.00	-25.13									
WQTH457	2	36	12	53.6 N	87	19	39.8 W	42.4	281.4	469.7906	49.53	-70.54	-16.5	-37.50	-114.14	-2.00	-25.15									
WQOI335	1	36	14	0.5 N	86	18	31.5 W	51.1	78.2	468.7875	66.43	-85.86	-16.5	-35.93	-115.74	-2.00	-25.20									
WQAZ704	1	36	10	0 N	86	47	0 W	7.9	68.7	468.0500	66.37	-102.09	-16.5	-52.23	-99.51	-2.00	-25.28									
WQCI570	2	36	10	0 N	86	47	0 W	7.9	68.7	468.0500	66.37	-102.09	-16.5	-52.23	-99.51	-2.00	-25.28									
WNWV978	3	35	38	50.2 N	86	34	40 W	60.6	154.6	468.9000	65.73	-83.78	-16.5	-34.55	-117.22	-2.00	-25.30									
WPNS363	1	35	37	21.3 N	87	2	56 W	59.8	196.0	469.0875	61.89	-80.13	-16.5	-34.73	-117.11	-2.00	-25.37									
WQUS251	8	36	42	16.5 N	86	31	1.2 W	69.9	26.3	468.9625	65.73	-82.62	-16.5	-33.39	-118.46	-2.00	-25.38									
WRMV933	1	36	44	2 N	86	38	59 W	68.6	16.3	468.9750	65.21	-82.39	-16.5	-33.68	-118.30	-2.00	-25.50									
WNUN714	1	36	8	33.2 N	86	48	3 W	5.8	88.1	467.9500	66.50	-105.24	-16.5	-55.24	-96.82	-2.00	-25.61									
WNUN714	2	36	8	33.2 N	86	48	3 W	5.8	88.1	467.9500	66.50	-105.24	-16.5	-55.24	-96.82	-2.00	-25.61									
WQI795	2	36	10	59.3 N	86	16	22.7 W	53.5	84.8	468.7500	66.46	-86.09	-16.5	-36.13	-116.14	-2.00	-25.80									
WPNS363	1	35	37	21.3 N	87	2	56 W	59.8	196.0	469.0625	61.89	-80.64	-16.5	-35.25	-117.11	-2.00	-25.88									
WRD1903	2	35	56	49.3 N	86	29	15 W	40.3	122.3	468.6500	66.29	-88.56	-16.5	-38.77	-113.67	-2.00	-25.97									
WRCK694	2	35	54	15.9 N	86	52	14.9 W	26.2	181.0	468.5875	63.82	-89.84	-16.5	-42.52	-109.93	-2.00	-25.98									
WPTM560	2	36	23	58 N	87	23	4 W	54.7	301.9	469.7125	50.73	-70.36	-16.5	-36.13	-116.35	-2.00	-25.99									
WRB0839	3	36	1	37 N	87	21	8 W	45.6	254.0	469.8000	49.38	-70.59	-16.5	-37.72	-114.77	-2.00	-25.99									
WPYD562	4	36	32	41 N	87	30	3 W	72.5	308.5	469.8125	53.42	-70.66	-16.5	-33.74	-118.80	-2.00	-26.05									
WQAZ704	1	36	10	0 N	86	47	0 W	7.9	68.7	468.0250	66.37	-102.88	-16.5	-53.01	-99.51	-2.00	-26.07									
WQCI570	2	36	10	0 N	86	47	0 W	7.9	68.7	468.0250	66.37	-102.88	-16.5	-53.01	-99.51	-2.00	-26.07									
WQV6663	2	36	36	7.1 N	86	31	20.7 W	59.7	30.8	468.8375	65.87	-84.94	-16.5	-35.56	-117.09	-2.00	-26.18									
WPTM560	4	36	32	41 N	87	30	3 W	72.5	308.5	469.8375	53.42	-70.81	-16.5	-33.88	-118.80	-2.00	-26.19									
WRAN907	2	35	51	39.9 N	86	25	30.7 W	50.4	128.0	468.7375	66.24	-86.79	-16.5	-37.04	-115.62	-2.00	-26.19									
WRAY764	2	35	57	5.5 N	86	29	7.5 W	40.2	121.5	468.6375	66.30	-88.81	-16.5	-39.01	-113.65	-2.00	-26.20									
KD2551	1	36	0	29.2 N	86	35	46 W	28.4	121.3	468.4875	66.30	-91.89	-16.5	-42.09	-110.63	-2.00	-26.26									
WQVE464	1	35	50	30 N	86	23	27 W	54.2	127.8	468.7625	66.25	-86.32	-16.5	-36.57	-116.25	-2.00	-26.35									
WQWL345	1	36	42	55.9 N	86	34	50.8 W	68.7	21.7	468.9125	65.53	-83.55	-16.5	-34.52	-118.31	-2.00	-26.36									
WRU0389	2	35	43	58.2 N	86	57	41.1 W	46.1	190.8	468.8750	62.75	-84.24	-16.5	-37.99	-114.85	-2.00	-26.37									
WRHS272	1	36	43	10.6 N	87	15	12.5 W	73	331.8	469.2375	59.53	-77.05	-16.5	-34.02	-118.84	-2.00	-26.39									
WPNS363	1	35	37	21.3 N	87	2	56 W	59.8	196.0	469.0375																

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																	SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)					
WQCI570	2	36	10	0	N	86	47	0	W	7.9	68.7	467.9750	66.37	-104.45	-16.5	-54.59	-99.51	-2.00	-27.64				
WRPH825	2	36	8	36	N	86	38	15	W	20.5	89.2	468.2875	66.51	-96.40	-16.5	-46.39	-107.80	-2.00	-27.72				
WREK366	1	36	1	42.6	N	86	36	23.6	W	26.4	118.1	468.3875	66.32	-94.14	-16.5	-44.31	-109.99	-2.00	-27.85				
WRBM296	2	35	50	45.7	N	86	28	11.9	W	48.4	132.5	468.6375	66.20	-88.81	-16.5	-39.11	-115.26	-2.00	-27.91				
WRCC983	2	36	24	30.5	N	87	1	30.5	W	33	334.4	468.7750	60.15	-86.09	-16.5	-42.45	-111.94	-2.00	-27.92				
WQIB964	3	35	53	59	N	86	33	32.2	W	26.9	185.2	468.5250	63.35	-91.12	-16.5	-44.22	-110.16	-2.00	-27.95				
WQTY466	2	36	8	38.7	N	86	40	2.8	W	17.8	88.8	468.2250	66.50	-97.87	-16.5	-47.86	-106.57	-2.00	-27.97				
WQIQ335	3	36	7	12.9	N	86	24	34.4	W	41.1	93.1	468.5500	66.49	-90.61	-16.5	-40.61	-113.84	-2.00	-27.99				
WQGB709	2	36	35	32.2	N	87	15	22	W	61.1	325.2	469.1500	58.13	-78.84	-16.5	-37.21	-117.30	-2.00	-28.03				
WRIT629	1	35	59	14.2	N	86	34	58.7	W	30.6	123.8	468.4375	66.28	-93.01	-16.5	-43.22	-111.28	-2.00	-28.04				
WQTL947	3	36	11	3.2	N	86	30	35.4	W	32.4	81.3	468.4500	66.44	-92.72	-16.5	-42.78	-111.77	-2.00	-28.07				
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	468.8125	65.73	-85.40	-16.5	-36.17	-118.46	-2.00	-28.16				
WPD8219	3	35	54	34.2	N	86	53	54	W	25.8	186.5	468.5000	63.23	-91.63	-16.5	-44.90	-109.80	-2.00	-28.24				
WPPC229	2	36	8	55.2	N	86	12	47	W	58.7	89.0	468.6875	66.16	-87.79	-16.5	-37.78	-116.94	-2.00	-28.25				
WPEC304	4	36	48	26.6	N	87	24	58.3	W	88.9	326.6	469.3000	58.37	-76.06	-16.5	-34.19	-120.56	-2.00	-28.27				
WQW7530	1	35	43	27	N	86	19	10	W	67.6	133.1	468.7625	66.19	-86.32	-16.5	-36.63	-118.17	-2.00	-28.33				
WQAZ704	1	36	10	0	N	86	47	0	W	7.9	68.7	467.9500	66.37	-105.24	-16.5	-55.37	-99.51	-2.00	-28.37				
WQCI570	2	36	10	0	N	86	47	0	W	7.9	68.7	467.9500	66.37	-105.24	-16.5	-55.37	-99.51	-2.00	-28.42				
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	468.8875	66.16	-84.01	-16.5	-34.35	-120.56	-2.00	-28.44				
WPPD303	2	36	12	34.2	N	86	41	40	W	17.2	63.5	468.2000	66.33	-98.47	-16.5	-48.63	-106.27	-2.00	-28.44				
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	468.3875	66.30	-94.14	-16.5	-44.34	-110.63	-2.00	-28.51				
WRUC948	2	36	12	51.8	N	86	33	28.1	W	28.9	73.4	468.3875	66.40	-94.14	-16.5	-44.23	-110.78	-2.00	-28.52				
WRPY388	5	36	16	26.2	N	86	39	47.5	W	50.8	112.5	468.3125	66.22	-95.83	-16.5	-46.12	-108.95	-2.00	-28.60				
WNWN641	2	36	13	52.2	N	86	43	23	W	16.3	51.8	468.1750	66.23	-99.07	-16.5	-49.34	-105.80	-2.00	-28.68				
WQOB999	10	35	57	12.5	N	86	48	51.4	W	21.3	167.5	468.3250	65.01	-95.55	-16.5	-47.04	-108.13	-2.00	-28.71				
WPDY562	6	36	30	12.2	N	87	15	33	W	53.5	318.9	469.1500	56.29	-78.84	-16.5	-39.05	-116.14	-2.00	-28.72				
WQZC684	2	36	35	4.2	N	87	17	37	W	62.4	322.3	469.1625	57.35	-78.59	-16.5	-37.74	-117.48	-2.00	-28.74				
WQAY855	1	36	9	41	N	86	48	14	W	6	67.6	467.8750	66.36	-108.10	-16.5	-58.24	-97.12	-2.00	-28.91				
WRFM502	2	35	55	20.5	N	86	53	54.5	W	24.4	187.0	468.4500	63.11	-92.72	-16.5	-46.11	-109.31	-2.00	-28.96				
WRAY286	2	36	37	14.8	N	87	15	48.8	W	64.1	326.4	469.1125	58.37	-79.61	-16.5	-37.74	-117.71	-2.00	-28.98				
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	468.7625	65.57	-86.32	-16.5	-37.25	-118.22	-2.00	-29.00				
WQTD409	3	36	30	3	N	86	52	9	W	39.9	359.5	468.6125	63.82	-89.33	-16.5	-42.01	-113.59	-2.00	-29.03				
WRIC702	8	36	25	49	N	87	10	5.9	W	42	319.8	469.0125	56.55	-81.66	-16.5	-41.61	-114.04	-2.00	-29.13				
WRWN641	2	36	13	52.2	N	86	43	23	W	16.3	51.8	468.1750	66.23	-99.07	-16.5	-49.34	-105.80	-2.00	-29.28				
WQUR442	5	36	4	6.2	N	87	7	38	W	24.9	251.2	469.1375	49.34	-79.10	-16.5	-46.26	-109.50	-2.00	-29.28				
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	466.8625	66.41	-109.73	-16.5	-59.82	-96.02	-2.00	-29.41				
WRAY286	2	36	37	14.8	N	87	15	48.8	W	64.1	326.4	469.0875	58.37	-80.13	-16.5	-38.25	-117.71	-2.00	-29.49				
WQNZ346	5	36	4	25.4	N	86	9	41.5	W	63.8	96.5	468.6625	66.46	-88.30	-16.5	-38.34	-117.66	-2.00	-29.54				
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	466.9250	66.41	-109.86	-16.5	-59.95	-96.02	-2.00	-29.54				
WQKG440	4	35	48	7.9	N	86	23	29.9	W	6	13.1	468.6250	66.21	-99.07	-16.5	-59.36	-116.67	-2.00	-29.56				
WQGB709	2	36	35	32.2	N	87	15	22	W	61.1	325.2	469.0750	58.13	-80.38	-16.5	-38.75	-117.30	-2.00	-29.57				
WQJS15	3	36	18	52.3	N	86	24	6.7	W	45.9	65.0	468.5250	66.35	-91.12	-16.5	-41.27	-114.80	-2.00	-29.61				
WQWS708	3	36	10	56.4	N	86	17	5.9	W	52.4	84.8	468.5750	66.46	-90.09	-16.5	-40.13	-115.95	-2.00	-29.63				
WQUM969	2	36	9	1.5	N	86	48	7.7	W	56.8	79.4	466.2500	66.43	-109.20	-16.5	-59.27	-96.79	-2.00	-29.64				
WRCK694	2	35	54	15.9	N	86	52	14.9	W	2.2	181.0	468.4125	63.82	-93.57	-16.5	-46.25	-109.93	-2.00	-29.72				
WNWV224	2	36	45	30.2	N	86	10	37	W	92.2	41.7	468.8375	66.10	-84.94	-16.5	-35.33	-120.87	-2.00	-29.73				
WNWV224	3	36	45	30.2	N	86	10	37	W	92.2	41.7	468.8375	66.10	-84.94	-16.5	-35.33	-120.87	-2.00	-29.73				
WQTQ717	1	36	31	49.3	N	87	13	27.7	W	53.9	323.5	469.0375	57.62	-81.15	-16.5	-40.03	-116.21	-2.00	-29.76				
WRFE664	1	36	1	2.2	N	86	31	0	W	34.3	113.6	468.4000	66.36	-93.86	-16.5	-43.99	-112.27	-2.00	-29.80				
WNWN641	2	36	13	52.2	N	86	43	23	W	16.3	51.8	468.1750	66.23	-100.27	-16.5	-50.54	-105.80	-2.00	-29.88				
WQSY470	3	36	10	3.2	N	86	48	25	W	6.1	60.5	466.4750	66.30	-108.93	-16.5	-59.12	-97.23	-2.00	-29.93				
WQZH483	2	36	8	55.1	N	86	47	56.7	W	6	81.7	466.2000	66.44	-109.27	-16.5	-59.33	-97.08	-2.00	-30.00				
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	468.6875	59.08	-87.79	-16.5	-45.21	-111.28	-2.00	-30.02				
WPRX899	2	35	34	6.8	N	86	27	40.3	W	73.3	150.1	468.7250	65.87	-87.02	-16.5	-37.65	-118.87	-2.00	-30.07				
WRMY427	2	35	35	14	N	86	39	56	W	64	163.6	468.6938	65.28	-87.66	-16.5	-38.88	-117.69	-2.00	-30.10				
WQUR869	2	36	9	1.5	N	86	48	7.7	W	56.8	79.4	466.8500	66.43	-109.71	-16.5	-59.78	-96.80	-2.00					

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)							
WQQJ335	3	36	7	12.9 N		86	24	34.4 W		41.1	93.1	468.4000	66.49	-93.86	-16.5	-43.86	-113.84	-2.00		-31.24						
WQUL544	3	36	5	8.8 N		87	23	1.3 W		47	262.7	469.3125	49.67	-75.87	-16.5	-42.70	-115.02	-2.00		-31.24						
WQQM206	1	36	7	56.6 N		86	47	44 W		6.4	98.5	466.9875	66.44	-109.99	-16.5	-60.05	-97.66	-2.00		-31.27						
WQXF625	4	36	9	12.5 N		86	48	32.3 W		5.3	74.5	467.1875	66.41	-111.61	-16.5	-61.70	-96.03	-2.00		-31.29						
WRIUQ389	2	35	43	58.2 N		86	57	41.1 W		46.1	190.8	468.6125	62.75	-89.33	-16.5	-43.08	-114.84	-2.00		-31.45						
WQCV491	3	35	46	47.6 N		86	20	58.2 W		61.4	130.7	468.5625	66.22	-90.35	-16.5	-40.63	-117.33	-2.00		-31.75						
WNNQ984	2	36	9	29.2 N		86	47	4 W		7.5	75.2	466.4500	66.42	-108.91	-16.5	-59.00	-99.03	-2.00		-31.60						
WQHE537	18	36	6	3.1 N		86	45	58 W		9.6	111.8	467.9000	66.38	-106.81	-16.5	-56.94	-101.20	-2.00		-31.68						
WQVZ577	1	36	10	43.3 N		86	52	41.3 W		4.4	345.0	466.2000	62.04	-109.27	-16.5	-63.74	-94.39	-2.00		-31.70						
WNNW641	2	36	13	52.2 N		86	43	23 W		16.3	51.8	468.0500	66.23	-102.09	-16.5	-52.36	-105.80	-2.00		-31.71						
WQNE407	2	36	11	3.6 N		86	26	44.5 W		38.1	82.6	468.3500	66.44	-94.99	-16.5	-45.04	-113.18	-2.00		-31.75						
WQQJ335	1	36	14	0.5 N		86	18	31.5 W		51.1	78.2	468.4625	66.43	-92.44	-16.5	-42.51	-115.73	-2.00		-31.78						
WPPC229	2	36	8	55.2 N		86	12	47 W		58.7	89.0	468.5125	66.51	-91.38	-16.5	-41.36	-116.94	-2.00		-31.84						
WQIF421	1	36	31	15.6 N		87	20	43.8 W		60.3	314.7	469.1000	55.23	-79.87	-16.5	-41.14	-117.18	-2.00		-31.84						
WQQT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	468.3625	66.30	-94.70	-16.5	-44.90	-113.41	-2.00		-31.84						
WQRF789	1	36	7	43 N		86	51	8 W		1.8	138.6	467.4875	66.12	-121.37	-16.5	-71.74	-86.65	-2.00		-31.95						
WRRW360	1	36	35	35 N		86	49	32 W		6.4	145.9	467.8375	65.99	-110.28	-16.5	-60.79	-97.68	-2.00		-32.01						
WQVQ668	1	36	6	17.1 N		87	3	14 W		17.4	256.7	468.8250	49.41	-85.17	-16.5	-52.26	-106.38	-2.00		-32.17						
WPRK857	5	36	2	40.3 N		87	20	42.9 W		44.5	256.2	469.2375	49.41	-77.05	-16.5	-44.14	-114.55	-2.00		-32.21						
WQYC257	4	36	9	50 N		86	47	5.4 W		7.7	70.5	466.6500	66.38	-109.29	-16.5	-59.41	-99.26	-2.00		-32.24						
WREP474	1	36	8	57.1 N		86	47	43.9 W		6.4	81.6	467.1125	66.44	-110.98	-16.5	-61.04	-97.66	-2.00		-32.26						
WNTK1602	3	36	45	21.2 N		86	11	4 W		91.6	41.5	468.7000	66.10	-87.53	-16.5	-37.93	-120.81	-2.00		-32.27						
WQVZ828	2	36	9	22.7 N		86	47	33.6 W		6.8	75.2	467.0500	66.42	-110.45	-16.5	-60.53	-98.19	-2.00		-32.28						
WQMM949	3	36	9	41.6 N		86	47	2 W		7.7	72.5	466.6750	66.39	-109.34	-16.5	-59.45	-99.26	-2.00		-32.28						
WQNR670	1	36	7	20.4 N		86	52	15.7 W		2.1	193.4	467.4125	62.33	-116.58	-16.5	-70.75	-87.99	-2.00		-32.30						
WPPA592	2	36	25	5.2 N		86	44	30 W		32.7	19.8	468.3125	65.41	-95.83	-16.5	-46.92	-111.85	-2.00		-32.31						
WRRV620	9	36	9	29.8 N		86	47	5.7 W		7.5	75.0	466.8500	66.42	-109.71	-16.5	-59.79	-99.03	-2.00		-32.40						
WQNR699	2	36	9	25.9 N		86	46	36.2 W		8.2	71.7	466.4250	66.42	-108.85	-16.5	-59.03	-99.80	-2.00		-32.40						
WQXQ340	3	36	9	33.8 N		86	46	42.7 W		8.1	75.4	466.5375	66.42	-109.06	-16.5	-59.14	-99.70	-2.00		-32.41						
WRIQ329	2	36	9	40.1 N		86	46	42.7 W		8.1	73.9	466.5375	66.40	-109.06	-16.5	-59.15	-99.70	-2.00		-32.42						
WQUL544	3	36	5	8.8 N		87	23	1.3 W		47	262.7	469.2375	49.67	-77.05	-16.5	-43.89	-115.02	-2.00		-32.43						
WQMM949	3	36	9	41.6 N		86	47	2 W		7.7	72.5	466.7625	66.39	-109.53	-16.5	-59.63	-99.26	-2.00		-32.46						
WNNW641	2	36	13	52.2 N		86	43	23 W		16.3	51.8	468.0250	66.23	-102.88	-16.5	-53.15	-105.80	-2.00		-32.46						
WRIQW330	9	36	9	26.5 N		86	46	49.4 W		7.9	76.5	466.7000	66.42	-109.40	-16.5	-59.48	-99.48	-2.00		-32.53						
WREJ827	2	36	9	19.8 N		86	46	32.4 W		8.3	78.5	466.5000	66.43	-108.98	-16.5	-59.05	-99.91	-2.00		-32.53						
WQTK807	2	36	9	29.2 N		86	46	36.6 W		8.2	76.5	466.3250	66.42	-109.09	-16.5	-59.18	-99.80	-2.00		-32.55						
WPOA612	2	36	9	33.2 N		86	46	55 W		7.8	74.7	466.0250	66.41	-109.53	-16.5	-59.62	-99.36	-2.00		-32.56						
WPUF564	1	36	9	10.7 N		86	48	28 W		5.4	75.4	467.2625	66.42	-112.75	-16.5	-62.84	-96.19	-2.00		-32.56						
WQVQ483	4	35	54	50.2 N		86	49	17 W		25.5	171.0	468.2375	64.70	-97.56	-16.5	-49.36	-109.69	-2.00		-32.59						
WRIQ329	2	36	9	40.1 N		86	46	42.7 W		8.1	73.9	466.6250	66.40	-109.24	-16.5	-59.33	-99.70	-2.00		-32.60						
WPPY461	6	36	9	32.9 N		86	46	42.6 W		8.1	75.4	466.1750	66.42	-109.31	-16.5	-59.39	-99.69	-2.00		-32.66						
WPXE452	2	36	9	33 N		86	46	42 W		8.1	75.4	466.6625	66.42	-109.32	-16.5	-59.40	-99.70	-2.00		-32.67						
WQHJ521	2	35	52	52 N		86	24	6 W		50.8	124.6	468.4250	66.28	-93.29	-16.5	-43.51	-115.68	-2.00		-32.73						
WQXQ340	3	36	9	33 N		86	46	42.7 W		7.7	75.4	466.7000	66.42	-109.40	-16.5	-59.48	-99.70	-2.00		-32.75						
WQYC257	4	36	9	50 N		86	47	5.4 W		7.7	70.5	466.9000	66.38	-109.81	-16.5	-59.93	-99.26	-2.00		-32.76						
WRCV864	1	36	11	37.4 N		86	48	3.4 W		8.3	44.6	466.4250	66.15	-108.95	-16.5	-59.30	-99.91	-2.00		-32.78						
WQWA791	1	36	9	51.3 N		86	49	21.7 W		4.7	55.9	467.3125	66.27	-114.03	-16.5	-64.25	-94.98	-2.00		-32.80						
WQSI477	2	36	10	49.8 N		86	52	55.9 W		4.6	341.3	466.7000	61.45	-109.40	-16.5	-64.44	-94.79	-2.00		-32.80						
WQMM949	3	36	9	41.6 N		86	47	2 W		7.7	72.5	466.9375	66.39	-109.89	-16.5	-60.00	-99.26	-2.00		-32.83						
WRIW1703	2	36	9	33.7 N		86	46	24.2 W		8.5	76.0	466.3000	66.42	-109.13	-16.5	-59.21	-100.11	-2.00		-32.90						
WQVQ639	1	36	9	35.2 N		86	46	18.7 W		8.7	75.9	466.4375	66.42	-108.93	-16.5	-59.02	-100.32	-2.00		-32.91						
WQQJ335	1	36	14	0.5 N		86	18	31.5 W		51.1	78.2	468.4125	66.43	-93.57	-16.5	-43.65	-115.73	-2.00		-32.91						
WPEX272	1	36	8	40.2 N		86	46	1 W		8.9	87.3	467.8625	66.49	-108.83	-16.5	-58.84	-100.54	-2.00		-32.93						
WRRF880	3	36	9	40.4 N		86	46	42.5 W		8.2	73.8	466.7500	66.40	-109.50	-16.5	-59.60	-99.81	-2.00		-32.94						
WQHE537	18	36	6	3.1 N		86	45	58 W		9.6	111.8	467.8750	66.38	-108.10	-16.5	-58.23	-101.20	-2.00		-32.97						
WRIUQ389	2	35	43	58.2 N																						

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WREA477	3	36	9	50.4 N		86	46	43.5 W		8.2	71.7	467.0250	66.39	-110.23	-16.5	-60.35	-99.81	-2.00	-33.72														
WPRK857	5	36	2	40.3 N		87	20	42.9 W		44.5	256.2	469.1625	49.41	-78.59	-16.5	-45.68	-114.54	-2.00	-33.75														
WPXE272	1	36	8	40.2 N		86	46	1 W		8.9	87.3	466.8375	66.49	-109.68	-16.5	-59.69	-100.52	-2.00	-33.78														
WNYK915	1	36	10	27.2 N		86	47	28 W		7.7	60.9	467.0875	66.30	-110.76	-16.5	-60.96	-99.27	-2.00	-33.79														
WNWL306	3	36	9	33.2 N		86	46	55 W		7.8	74.7	467.0875	66.41	-110.76	-16.5	-60.85	-99.38	-2.00	-33.80														
WQQA563	33	36	10	45.8 N		86	46	38.7 W		9	61.5	466.0750	66.32	-109.45	-16.5	-59.63	-100.60	-2.00	-33.82														
WQQA563	33	36	10	45.8 N		86	46	38.7 W		9	61.5	466.0500	66.32	-109.49	-16.5	-59.67	-100.60	-2.00	-33.86														
WPUE564	1	36	9	10.7 N		86	48	28 W		5.4	75.4	467.3125	66.42	-114.03	-16.5	-64.11	-96.19	-2.00	-33.86														
WQPP259	3	36	6	51.7 N		86	46	13.7 W		9	109.0	465.9875	66.39	-109.58	-16.5	-59.69	-100.60	-2.00	-33.88														
WPPB946	2	36	10	4.2 N		86	46	7 W		9.2	70.9	466.7250	66.38	-109.45	-16.5	-59.57	-100.81	-2.00	-33.94														
WQUL544	3	36	5	8.8 N		87	23	1.3 W		4.7	262.7	469.1625	49.67	-78.59	-16.5	-45.42	-115.02	-2.00	-33.96														
WQW551	2	36	19	15 N		86	34	30.9 W		33.3	52.8	468.2125	66.24	-98.17	-16.5	-48.42	-112.01	-2.00	-33.97														
WPYP461	2	36	10	2 N		86	46	12 W		9.1	71.1	466.7875	66.39	-109.58	-16.5	-59.69	-100.71	-2.00	-33.97														
WRQJ617	10	36	9	56.8 N		86	46	6.9 W		9.2	72.3	466.0500	66.39	-109.49	-16.5	-59.60	-100.79	-2.00	-33.97														
WQQA563	33	36	10	45.8 N		86	46	38.7 W		9	61.5	466.8125	66.32	-109.63	-16.5	-59.81	-100.62	-2.00	-34.00														
WQZN460	2	36	9	31.5 N		86	46	30.9 W		8.4	76.2	467.0375	66.42	-110.34	-16.5	-60.42	-100.02	-2.00	-34.01														
WQJQ701	6	36	0	3.3 N		86	30	0.5 W		36.4	115.7	468.2375	66.35	-97.56	-16.5	-47.72	-112.78	-2.00	-34.04														
WNWN641	2	36	13	52.2 N		86	43	23 W		16.3	51.8	467.9750	66.23	-104.45	-16.5	-54.72	-105.80	-2.00	-34.06														
WRFCS57	3	36	28	36.2 N		86	28	37 W		51.1	42.9	468.3750	66.12	-94.42	-16.5	-44.80	-115.73	-2.00	-34.07														
WQJ335	3	36	7	12.9 N		86	24	34.4 W		41.1	93.1	468.2750	66.49	-96.68	-16.5	-46.69	-113.84	-2.00	-34.07														
WRUC798	2	36	4	9.5 N		86	26	46.2 W		38.6	101.8	468.2500	66.43	-97.26	-16.5	-47.33	-113.29	-2.00	-34.16														
WQBQ712	2	36	48	3.2 N		87	23	22 W		8.7	327.6	468.9750	58.61	-82.39	-16.5	-40.28	-120.36	-2.00	-34.17														
WREY596	2	36	39	47.2 N		87	10	36.4 W		64.3	334.5	468.7500	60.15	-86.56	-16.5	-42.91	-117.73	-2.00	-34.17														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.4500	66.50	-108.91	-16.5	-58.91	-101.70	-2.00	-34.18														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.4750	66.50	-108.93	-16.5	-58.92	-101.70	-2.00	-34.20														
WQRM718	2	36	11	1.7 N		86	52	41.4 W		4.9	346.7	467.1125	62.18	-110.98	-16.5	-65.30	-95.34	-2.00	-34.21														
WPPQA892	2	36	48	57.2 N		87	7	40 W		78.5	342.7	468.7625	61.60	-86.32	-16.5	-41.23	-119.47	-2.00	-34.22														
WPPY562	4	36	32	43 N		87	30	3 W		72.5	308.5	469.1500	53.42	-78.84	-16.5	-41.92	-118.78	-2.00	-34.23														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.5000	66.50	-108.98	-16.5	-58.98	-101.70	-2.00	-34.25														
WQOX314	1	36	5	31.1 N		86	51	48.9 W		5.4	178.1	467.2375	64.10	-112.11	-16.5	-64.52	-96.19	-2.00	-34.27														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.3750	66.50	-109.02	-16.5	-59.02	-101.70	-2.00	-34.29														
WREX463	5	36	8	2.9 N		86	45	39.5 W		9.4	94.5	466.9125	66.48	-109.84	-16.5	-59.86	-101.00	-2.00	-34.42														
WQHE517	18	36	6	3.3 N		86	45	58 W		9.6	111.8	467.8500	66.38	-109.56	-16.5	-59.68	-101.20	-2.00	-34.43														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.6000	66.50	-109.19	-16.5	-59.19	-101.70	-2.00	-34.46														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.2500	66.50	-109.20	-16.5	-59.20	-101.69	-2.00	-34.47														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.2000	66.50	-109.27	-16.5	-59.27	-101.69	-2.00	-34.54														
WQGX335	2	36	11	22.7 N		86	47	55.7 W		8.1	47.8	467.1125	66.19	-110.98	-16.5	-61.29	-99.71	-2.00	-34.55														
WQAB846	1	36	42	27 N		86	34	33.9 W		68	22.3	468.4875	65.57	-91.89	-16.5	-42.82	-118.21	-2.00	-34.57														
WQF5993	3	36	49	10 N		86	33	20 W		80.3	20.1	468.5625	65.47	-90.35	-16.5	-41.38	-119.66	-2.00	-34.57														
WQJL820	2	36	32	52.3 N		87	33	18.1 W		23.5	90.6	469.1000	65.03	-79.87	-16.5	-40.33	-120.72	-2.00	-34.58														
WPLX690	1	36	8	44.2 N		86	41	31 W		15.6	88.0	467.9375	66.50	-105.63	-16.5	-55.63	-105.42	-2.00	-34.59														
WQJ515	3	36	18	52.3 N		86	24	6.7 W		45.9	65.0	468.3000	66.35	-96.12	-16.5	-46.27	-114.80	-2.00	-34.61														
WPCY977	4	36	9	15.2 N		86	45	3 W		10.4	81.7	466.5625	66.44	-109.11	-16.5	-59.17	-101.87	-2.00	-34.61														
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	466.6750	66.50	-109.34	-16.5	-59.34	-101.70	-2.00	-34.61														
WQQA932	5	36	5	5.2 N		87	25	54 W		51.2	264.8	469.1625	49.76	-78.59	-16.5	-45.33	-115.76	-2.00	-34.62														
WQMM949	3	36	9	41.6 N		86	47	3 W		7.7	72.5	467.2000	66.39	-111.72	-16.5	-61.83	-99.27	-2.00	-34.66														
WPPY736	3	36	22	42.6 N		87	2	18 W		30.6	329.7	468.4625	59.08	-92.44	-16.5	-49.86	-111.28	-2.00	-34.68														
WQWA791	1	36	9	51.3 N		86	49	21.7 W		4.7	55.9	467.3875	66.27	-115.94	-16.5	-66.17	-94.99	-2.00	-34.71														
WRFN221	50	36	2	46.6 N		86	24	25.7 W		42.6	104.2	468.2625	66.42	-96.97	-16.5	-47.05	-114.15	-2.00	-34.74														
WNKY915	1	36	10	27.2 N		86	47	28 W		7.7	60.9	467.8125	66.30	-111.74	-16.5	-61.93	-99.28	-2.00	-34.76														
KDZ8661	1	36	9	33.2 N		86	46	55 W		7.8	74.7	467.8125	6																				

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																			SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)						
WQNC265	74	36	8	20.4 N		86	53	2.4 W		1.7	263.0	467.8500	49.72	-109.56	-16.5	-76.34	-86.16	-2.00	-36.05						
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.2125	66.39	-111.83	-16.5	-61.94	-100.63	-2.00	-36.12						
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	467.1000	66.50	-110.87	-16.5	-60.87	-101.71	-2.00	-36.14						
WQCM932	5	36	5	52.9 N		87	25	5.4 W		51.2	264.8	469.0875	49.76	-80.13	-16.5	-46.87	-115.76	-2.00	-36.15						
WQAZ704	7	35	53	55.6 N		86	52	47.6 W		26.9	182.7	468.1500	63.70	-99.67	-16.5	-52.47	-110.15	-2.00	-36.16						
WQHP922	2	35	53	59.9 N		86	53	33.2 W		26.9	185.2	468.1625	63.95	-99.37	-16.5	-52.52	-110.15	-2.00	-36.21						
WQWF642	3	36	2	21.9 N		87	19	32 W		42.9	254.8	469.0250	49.38	-81.41	-16.5	-48.53	-114.22	-2.00	-36.28						
WQOQ941	1	35	46	49.3 N		86	21	43 W		60.5	131.3	468.3375	66.21	-95.27	-16.5	-45.56	-117.20	-2.00	-36.29						
WREX463	5	36	8	2.9 N		86	45	39.5 W		9.4	94.5	467.2000	66.48	-111.72	-16.5	-61.74	-101.00	-2.00	-36.30						
WPRK857	5	36	2	40.3 N		87	20	42.9 W		44.5	256.2	469.0375	49.41	-81.15	-16.5	-48.24	-114.54	-2.00	-36.31						
WRCR855	4	36	24	42.6 N		86	22	10.8 W		53.8	55.7	468.2875	66.27	-96.40	-16.5	-46.63	-116.18	-2.00	-36.34						
WQTY877	2	36	8	32.9 N		86	45	9.2 W		10.2	88.9	467.1250	66.50	-111.08	-16.5	-61.08	-101.71	-2.00	-36.35						
WRAS442	1	36	5	48.7 N		86	44	40.4 W		11.9	114.2	466.8125	66.35	-109.63	-16.5	-59.78	-103.04	-2.00	-36.39						
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.2375	66.39	-112.11	-16.5	-62.23	-100.63	-2.00	-36.41						
WPPF084	2	36	37	13.2 N		87	13	21.2 W		62.1	329.2	468.6750	59.08	-88.05	-16.5	-45.47	-117.43	-2.00	-36.43						
WQNC474	2	36	37	49.1 N		87	26	5.3 W		74.6	317.1	468.9125	56.03	-83.55	-16.5	-44.01	-119.03	-2.00	-36.57						
WQDS561	12	36	12	19.9 N		86	41	47 W		64.7	467.9000	66.34	-106.81	-16.5	-56.97	-106.06	-2.00	-36.58							
KNNF902	2	36	41	44.2 N		86	8	54.9 W		89	45.9	468.4750	66.16	-92.16	-16.5	-42.50	-120.55	-2.00	-36.59						
WPMW299	2	36	41	44.2 N		86	8	54.9 W		89	45.9	468.4750	66.16	-92.16	-16.5	-42.50	-120.55	-2.00	-36.59						
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	468.2375	66.27	-97.56	-16.5	-47.79	-115.26	-2.00	-36.59						
WQNC478	6	36	36	35.4 N		87	25	56.5 W		72.8	316.0	468.9125	55.76	-83.55	-16.5	-44.29	-118.81	-2.00	-36.63						
WNS241	5	36	39	27.6 N		87	26	49.5 W		77.5	318.0	468.9125	56.29	-83.55	-16.5	-43.76	-119.36	-2.00	-36.64						
WNFL569	2	36	8	13.2 N		86	44	24 W		11.3	92.1	465.5500	66.50	-110.50	-16.5	-60.50	-102.57	-2.00	-36.66						
WPOY708	2	36	27	8.7 N		87	22	16.4 W		75.1	307.5	468.9375	53.08	-83.08	-16.5	-46.50	-116.71	-2.00	-36.73						
WQNC482	4	36	37	16.6 N		87	26	3.4 W		73.8	316.5	468.9125	55.76	-83.55	-16.5	-44.29	-118.93	-2.00	-36.75						
WQAZ704	7	35	53	55.6 N		86	52	47.6 W		26.9	182.7	468.1250	63.70	-100.27	-16.5	-53.07	-110.15	-2.00	-36.76						
WQNC482	2	36	39	59 N		87	27	9.8 W		78.6	318.2	468.9125	56.29	-83.55	-16.5	-43.76	-119.48	-2.00	-36.76						
WQTY457	2	36	12	53.6 N		87	19	39.2 W		42.4	281.4	468.9875	49.53	-82.16	-16.5	-49.12	-114.12	-2.00	-36.77						
WQVU322	4	36	37	21.6 N		87	26	10.5 W		74	316.5	468.9125	55.76	-83.55	-16.5	-44.29	-118.96	-2.00	-36.77						
WQVU322	5	36	37	24 N		87	26	7 W		74	316.6	468.9125	55.76	-83.55	-16.5	-44.29	-118.96	-2.00	-36.77						
WQVU322	6	36	37	24.9 N		87	26	3.9 W		74	316.7	468.9125	55.76	-83.55	-16.5	-44.29	-118.96	-2.00	-36.77						
WQNC474	4	36	38	56.6 N		87	26	35.4 W		76.6	317.7	468.9125	56.03	-83.55	-16.5	-44.01	-119.26	-2.00	-36.80						
WQNC481	1	36	37	34.3 N		87	26	7.7 W		74.3	316.8	468.9125	55.76	-83.55	-16.5	-44.29	-118.99	-2.00	-36.81						
WQVU322	2	36	37	27.3 N		87	26	21.8 W		74.4	316.5	468.9125	55.76	-83.55	-16.5	-44.29	-119.00	-2.00	-36.82						
WQVU322	3	36	37	32.1 N		87	26	21.1 W		74.4	316.6	468.9125	55.76	-83.55	-16.5	-44.29	-119.00	-2.00	-36.82						
WRUA834	1	36	9	7.1 N		86	42	50.5 W		84.8	466.4875	66.46	-108.95	-16.5	-58.99	-104.26	-2.00	-36.83							
WQTY457	2	36	12	53.6 N		87	19	39.8 W		42.4	281.4	468.9844	49.53	-82.22	-16.5	-49.18	-114.12	-2.00	-36.83						
WQNC474	1	36	37	32.7 N		87	26	34.9 W		74.7	316.4	468.9125	55.76	-83.55	-16.5	-44.29	-119.04	-2.00	-36.86						
WRUA834	1	36	9	7.1 N		86	42	50.5 W		84.8	466.5125	66.46	-109.00	-16.5	-59.04	-104.26	-2.00	-36.88							
WRJUL604	2	36	31	46.6 N		87	21	35.1 W		61.9	314.5	468.8500	55.23	-84.70	-16.5	-45.97	-117.40	-2.00	-36.90						
WRUS307	3	36	9	26.2 N		86	43	19.3 W		13	81.9	466.7375	66.44	-109.47	-16.5	-59.53	-103.81	-2.00	-36.91						
WNS241	6	36	39	27.4 N		87	27	13.4 W		77.9	317.7	468.9125	56.03	-83.55	-16.5	-44.01	-119.40	-2.00	-36.94						
WQVU322	1	36	39	18.6 N		87	27	22 W		77.9	317.4	468.9125	56.03	-83.55	-16.5	-44.01	-119.40	-2.00	-36.94						
WQNC474	3	36	39	19.2 N		87	27	28.9 W		78	317.3	468.9125	56.03	-83.55	-16.5	-44.01	-119.41	-2.00	-36.95						
WPKP981	2	36	30	19 N		86	51	24.1 W		40.4	1.1	468.2500	64.01	-97.26	-16.5	-49.75	-113.69	-2.00	-36.98						
WRTM806	2	36	5	15.2 N		86	44	10 W		13.1	117.0	466.1000	66.33	-109.42	-16.5	-59.58	-103.87	-2.00	-37.03						
WNS241	2	36	36	50.8 N		87	26	48 W		74	315.5	468.9125	55.50	-83.55	-16.5	-44.55	-118.96	-2.00	-37.03						
WNS241	4	36	36	59.6 N		87	26	40.5 W		74.1	315.8	468.9125	55.50	-83.55	-16.5	-44.55	-118.97	-2.00	-37.04						
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.2625	66.39	-112.75	-16.5	-62.87	-100.63	-2.00	-37.05						
WQLH736	1	36	36	57.5 N		87	26	51.5 W		74.2	315.6	468.9125	55.50	-83.55	-16.5	-44.55	-118.98	-2.00	-37.06						
WQUM229	1	36	1	33.4 N		86	47	24.3 W		14.2	152.0	467.8750	65.80	-108.10	-16.5	-58.80	-104.72	-2.00	-37.07						
WRUA834	1	36	9	7.1 N		86	42	50.5 W		13.7	84.8	466.6125	66.46	-109.21	-16.5	-59.25	-104.26	-2.00	-37.09						
WQVU321	1	36	38	27.7 N		87	27	43.5 W		77.1	316.3	468.9125	55.76	-83.55	-16.5	-44.29	-119.31	-2.00	-37.13						
WQNC478	4	36	40	16.8 N		87	28	0.6 W		79.8	317.8	468.9125	56.03	-83.55	-16.5	-44.01	-119.61	-2.00	-37.15						
WQNC474	5	36	35	58.9 N		87	26	42.5 W		72.8	314.7	468.9125	55.23	-83.55	-16.5	-44.81	-118.81								

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED											
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)							
WQNC481	5	36	39	53.1 N		87	29	34.5 W		80.9	316.2	468.9125	55.76	-83.55	-16.5	-44.29	-119.73	-2.00	-37.55												
WQVU321	3	36	37	34.9 N		87	28	41.7 W		77	314.7	468.9125	55.23	-83.55	-16.5	-44.81	-119.30	-2.00	-37.64												
WQAZ704	6	35	52	23.3 N		86	28	47.2 W		45.7	130.5	468.1750	66.22	-99.07	-16.5	-49.35	-114.76	-2.00	-37.65												
WQTD409	3	36	30	3 N		86	52	9 W		39.9	359.5	468.2250	63.82	-97.87	-16.5	-50.55	-113.58	-2.00	-37.67												
WQNC478	5	36	40	40.5 N		87	29	36 W		82	316.9	468.9125	55.76	-83.55	-16.5	-44.29	-119.85	-2.00	-37.67												
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.2875	66.39	-113.99	-16.5	-63.50	-100.63	-2.00	-37.69												
WQNS241	1	36	40	18.2 N		87	30	23.6 W		82.3	316.0	468.9125	55.76	-83.55	-16.5	-44.29	-119.88	-2.00	-37.70												
WQXQ340	3	36	9	33 N		86	46	42.7 W		8.1	75.4	467.3250	66.42	-114.35	-16.5	-64.43	-99.71	-2.00	-37.70												
WRCZ766	3	36	9	39.7 N		86	46	32.2 W		8.4	74.4	467.3125	66.41	-114.03	-16.5	-64.12	-100.03	-2.00	-37.70												
WQUT786	6	36	40	38.7 N		87	30	2.7 W		82.4	316.6	468.9125	55.76	-83.55	-16.5	-44.29	-119.89	-2.00	-37.71												
WQGG952	2	36	13	18.2 N		86	44	38 W		14.2	50.5	466.1500	66.22	-109.35	-16.5	-59.63	-104.57	-2.00	-37.77												
WQGG952	3	36	13	18.2 N		86	44	38 W		14.2	50.5	466.1500	66.22	-109.35	-16.5	-59.63	-104.57	-2.00	-37.77												
WNHNW277	4	36	5	3.2 N		86	53	56 W		7	205.4	466.8250	60.36	-109.66	-16.5	-65.80	-98.44	-2.00	-37.80												
WRDP811	2	36	5	3.2 N		86	53	56 W		7	205.4	466.8250	60.36	-109.66	-16.5	-65.80	-98.44	-2.00	-37.80												
WNYH487	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.4625	66.50	-108.90	-16.5	-58.90	-105.39	-2.00	-37.86												
WQXK690	10	36	2	57.3 N		86	39	28.9 W		21.3	118.6	467.9250	66.32	-106.03	-16.5	-56.20	-108.12	-2.00	-37.87												
WQNC483	6	36	39	18.6 N		87	27	21.7 W		77.9	317.4	468.8625	56.03	-84.47	-16.5	-44.94	-119.40	-2.00	-37.87												
WQID561	12	36	12	19 N		86	41	47 W		16.8	64.7	467.8750	66.34	-108.10	-16.5	-58.27	-106.06	-2.00	-37.87												
WPGH710	3	36	15	21.2 N		86	49	21 W		13.3	16.8	466.3750	65.21	-109.02	-16.5	-60.31	-104.00	-2.00	-37.89												
WPLK690	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.5125	66.50	-109.00	-16.5	-59.00	-105.39	-2.00	-37.97												
WQAZ704	7	35	53	55.6 N		86	52	47.6 W		26.9	182.7	468.0750	63.70	-101.47	-16.5	-54.27	-110.15	-2.00	-37.97												
WQUP944	1	36	7	47.1 N		86	41	31.7 W		15.7	94.5	466.4250	66.48	-108.95	-16.5	-58.97	-105.44	-2.00	-37.99												
WQVW941	1	35	46	49.3 N		86	21	43 W		60.5	131.3	468.2625	66.21	-96.97	-16.5	-47.26	-117.19	-2.00	-37.99												
WQUA901	2	36	29	37.7 N		86	51	33.8 W		39.2	0.8	468.2000	63.93	-98.47	-16.5	-51.04	-113.42	-2.00	-38.01												
WRPT870	2	36	11	45.2 N		86	58	0.3 W		11	304.0	468.2375	51.94	-97.56	-16.5	-62.13	-102.39	-2.00	-38.06												
WQLH736	3	36	37	12.2 N		87	30	22.6 W		78.3	313.1	468.9125	54.96	-83.55	-16.5	-45.09	-119.45	-2.00	-38.06												
WQLH736	4	36	34	26.7 N		87	28	57.9 W		73.3	311.3	468.9125	54.38	-83.55	-16.5	-45.67	-118.87	-2.00	-38.07												
WQAZ704	5	36	12	50.2 N		86	49	24.5 W		49.4	80.4	468.1750	66.44	-99.07	-16.5	-49.13	-115.43	-2.00	-38.10												
WNYH487	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.5125	66.50	-109.21	-16.5	-59.21	-105.39	-2.00	-38.17												
WPLK690	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.2375	66.50	-109.22	-16.5	-59.22	-105.38	-2.00	-38.18												
WREP474	1	36	8	57.1 N		86	47	43.9 W		6.4	81.6	467.4250	66.44	-116.90	-16.5	-66.96	-97.67	-2.00	-38.18												
WQXK690	2	36	10	4.2 N		86	46	7 W		9.2	70.9	467.3000	66.38	-113.71	-16.5	-63.83	-100.82	-2.00	-38.20												
WQZA963	1	36	9	29.8 N		86	46	57.2 W		7.7	75.4	467.3625	66.42	-115.30	-16.5	-65.39	-99.27	-2.00	-38.22												
WREY596	2	36	39	47.2 N		87	36	36 W		10	34.5	468.5500	66.13	-90.61	-16.5	-46.96	-117.73	-2.00	-38.22												
WPLK690	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.6375	66.50	-109.27	-16.5	-59.26	-105.39	-2.00	-38.23												
WQAZ704	6	35	52	23.3 N		86	28	47.2 W		45.7	130.5	468.1500	66.22	-99.67	-16.5	-49.95	-114.76	-2.00	-38.25												
WPMJ753	3	36	2	59.2 N		86	49	59 W		10.5	163.9	467.1750	65.28	-111.51	-16.5	-62.73	-101.96	-2.00	-38.25												
WNYH487	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.6625	66.50	-109.32	-16.5	-59.32	-105.39	-2.00	-38.28												
WQNC483	3	36	39	18.8 N		87	28	31.4 W		79.1	316.5	468.8625	55.76	-84.47	-16.5	-45.21	-119.53	-2.00	-38.28												
WRBU631	13	35	58	9 N		86	48	15.1 W		19.8	163.9	467.9250	66.28	-106.03	-16.5	-57.25	-107.49	-2.00	-38.28												
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.3125	66.39	-114.03	-16.5	-64.14	-100.63	-2.00	-38.33												
WQNC483	4	36	39	44.7 N		87	28	48.7 W		79.9	316.7	468.8625	55.76	-84.47	-16.5	-45.21	-119.62	-2.00	-38.37												
WNYH487	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.7125	66.50	-109.42	-16.5	-59.42	-105.39	-2.00	-38.38												
WQVB681	11	36	2	1.1 N		86	47	47 W		13.2	151.8	467.0250	65.84	-110.23	-16.5	-60.89	-103.95	-2.00	-38.41												
WNYH487	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.7375	66.50	-109.47	-16.5	-59.47	-105.39	-2.00	-38.43												
WRDD601	2	36	37	30.9 N		87	15	24.4 W		64.3	327.1	468.6125	58.61	-89.33	-16.5	-47.21	-117.72	-2.00	-38.46												
WQUM229	1	36	1	33.4 N		86	47	24.3 W		14.4	152.0	467.8500	65.80	-109.56	-16.5	-60.25	-104.72	-2.00	-38.52												
WNYH487	1	36	8	44.2 N		86	41	31 W		15.6	88.0	466.7875	66.50	-109.58	-16.5	-59.58	-105.39	-2.00	-38.54												
WQUP944	1	36	7	47.1 N		86	41	31.7 W		15.7	94.5	466.7500	66.48	-109.50	-16.5	-59.52	-105.45	-2.00	-38.54												
WQHE537	7	36	2	42 N		86	39	51 W		21	120.4	467.9000	66.30	-106.81	-16.5	-57.01	-108.00	-2.00													

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	468.1250	66.44	-100.27	-16.5	-50.33	-115.43	-2.00	-39.31														
WQND532	9	36	13	20 N		86	44	38 W		14.2	50.3	465.4000	66.22	-110.89	-16.5	-61.17	-104.55	-2.00	-39.31														
WQYZ200	3	36	9	54.9 N		86	46	38.5 W		8.4	71.0	467.3750	66.39	-115.62	-16.5	-65.74	-100.03	-2.00	-39.32														
WQGS896	17	36	12	6.2 N		86	41	22 W		17.2	66.8	466.1375	66.35	-109.36	-16.5	-59.51	-106.23	-2.00	-39.32														
WQID561	12	36	12	1.9 N		86	41	47 W		16.8	64.7	467.8500	66.34	-109.54	-16.5	-59.72	-106.06	-2.00	-39.33														
WPPD303	2	36	12	34.2 N		86	41	40 W		40.7	66.3	466.1250	66.39	-109.38	-16.5	-59.55	-106.23	-2.00	-39.36														
WRRAS508	1	36	6	15.4 N		86	47	57.5 W		7.2	124.3	467.4250	66.28	-116.90	-16.5	-67.12	-98.69	-2.00	-39.36														
WQAZ704	7	35	53	55.6 N		86	52	47.6 W		26.9	182.7	468.0250	63.70	-102.88	-16.5	-55.68	-110.15	-2.00	-39.38														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	466.0875	66.33	-109.44	-16.5	-59.60	-106.23	-2.00	-39.41														
WPPD303	2	36	12	34.2 N		86	41	40 W		17.2	63.5	466.7250	66.33	-109.45	-16.5	-59.61	-106.24	-2.00	-39.43														
WQND461	2	36	7	38.2 N		86	41	12 W		16.2	95.3	465.7000	66.47	-110.11	-16.5	-60.14	-105.70	-2.00	-39.43														
WQAZ704	6	35	52	23.3 N		86	28	47.2 W		45.7	130.5	468.1000	66.22	-102.87	-16.5	-55.15	-114.76	-2.00	-39.45														
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	466.7625	66.33	-109.53	-16.5	-59.69	-106.24	-2.00	-39.50														
WPGJ708	2	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.7875	53.08	-85.86	-16.5	-49.28	-116.70	-2.00	-39.51														
WPU909	3	36	7	30 N		86	40	36 W		17.1	95.9	465.8875	66.47	-109.72	-16.5	-59.75	-106.18	-2.00	-39.51														
WPGH710	3	36	15	21.2 N		86	49	21 W		13.3	16.8	467.0750	65.21	-110.66	-16.5	-61.95	-104.01	-2.00	-39.52														
WRRN225	1	35	58	43.3 N		86	53	20 W		18.1	186.7	467.9250	63.23	-106.03	-16.5	-59.30	-106.71	-2.00	-39.55														
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.3625	66.39	-115.30	-16.5	-65.42	-100.63	-2.00	-39.60														
WRRS977	2	36	12	24.5 N		86	41	31.3 W		17.2	64.7	466.8125	66.34	-109.63	-16.5	-59.79	-106.24	-2.00	-39.60														
WQEE781	9	35	29	2.4 N		87	1	34 W		73.7	191.4	468.4250	62.61	-93.29	-16.5	-47.18	-118.91	-2.00	-39.63														
WQNY594	2	36	7	36.2 N		86	40	54 W		16.6	95.4	465.6500	66.47	-110.24	-16.5	-60.27	-105.91	-2.00	-39.77														
WPCJA892	2	36	48	57.2 N		87	7	40 W		78.5	342.7	468.4875	61.60	-91.89	-16.5	-46.79	-119.46	-2.00	-39.79														
WQJF442	3	36	38	22.7 N		86	35	3.6 W		60.8	75.5	468.2125	65.65	-98.17	-16.5	-49.02	-117.24	-2.00	-39.79														
KIT545	2	36	7	57.2 N		86	40	17 W		17.5	93.0	465.8000	66.49	-109.85	-16.5	-59.86	-106.37	-2.00	-39.82														
WRRM273	1	36	10	2.4 N		86	44	2.4 W		12.4	72.9	467.2625	66.39	-112.75	-16.5	-62.86	-103.41	-2.00	-39.83														
WQVJ907	1	36	9	30 N		86	46	50 W		8	73.7	467.4125	66.40	-116.58	-16.5	-66.67	-99.61	-2.00	-39.84														
WQHE537	7	36	2	4.2 N		86	39	51 W		21	120.4	467.8750	66.30	-108.10	-16.5	-58.30	-108.00	-2.00	-39.84														
WQHE561	15	35	57	21.6 N		86	48	53.5 W		21	167.5	467.9000	65.01	-106.81	-16.5	-58.30	-108.00	-2.00	-39.85														
WRCJA54	2	36	8	4.5 N		86	40	9.4 W		17.7	92.2	465.8375	66.50	-109.80	-16.5	-59.79	-106.47	-2.00	-39.85														
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	468.1000	66.44	-100.87	-16.5	-50.93	-115.43	-2.00	-39.91														
WPU909	3	36	7	30 N		86	40	36 W		17.1	95.9	465.6875	66.47	-110.14	-16.5	-60.17	-106.17	-2.00	-39.93														
WQZH380	1	36	9	5.7 N		86	48	8.9 W		5.8	78.1	467.4625	66.43	-119.50	-16.5	-69.57	-96.81	-2.00	-39.94														
KIT545	3	36	7	57.2 N		86	40	17 W		17.5	93.0	465.7500	66.49	-109.98	-16.5	-59.99	-106.37	-2.00	-39.95														
WQJX60	10	36	2	57.3 N		86	39	28.9 W		21.3	118.6	467.8750	66.30	-108.10	-16.5	-58.28	-108.12	-2.00	-39.95														
WRRMY625	2	35	29	16.6 N		86	24	55.8 W		83.1	150.7	468.3125	65.87	-95.83	-16.5	-46.46	-119.95	-2.00	-39.95														
WQLD653	3	36	9	27.6 N		86	46	26.2 W		8.5	77.2	467.4000	66.42	-116.26	-16.5	-66.34	-100.13	-2.00	-40.03														
WREL815	2	36	9	27.9 N		86	46	26 W		8.5	77.1	467.4000	66.42	-116.26	-16.5	-66.34	-100.13	-2.00	-40.03														
WQAZ704	6	35	52	23.3 N		86	28	47.2 W		45.7	130.5	468.0750	66.22	-101.47	-16.5	-51.75	-114.75	-2.00	-40.05														
WQGS835	9	36	11	22.7 N		86	47	55.7 W		8.1	47.8	467.4125	66.19	-116.58	-16.5	-66.89	-99.71	-2.00	-40.16														
WQAZ704	7	35	53	55.6 N		86	52	47.6 W		26.9	182.7	468.0000	63.70	-102.87	-16.5	-55.47	-110.15	-2.00	-40.16														
WQWY937	2	35	59	39 N		86	48	32.6 W		17.1	162.7	466.2000	65.35	-109.27	-16.5	-60.43	-106.18	-2.00	-40.19														
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.3875	66.39	-115.94	-16.5	-66.05	-100.63	-2.00	-40.24														
WQDP235	7	35	45	59.4 N		86	23	33.3 W		59.5	134.2	468.1625	66.18	-99.37	-16.5	-49.69	-117.05	-2.00	-40.28														
WRRH825	1	36	8	36 N		86	38	15 W		20.5	89.2	466.5125	66.51	-109.00	-16.5	-58.99	-107.76	-2.00	-40.33														
WRRN225	1	35	58	43.3 N		86	53	20 W		18.1	186.7	467.9000	63.23	-106.03	-16.5	-60.08	-106.71	-2.00	-40.34														
WRRU631	13	35	58	9 N		86	48	15.1 W		19.8	163.9	467.8750	65.20	-108.10	-16.5	-59.33	-107.48	-2.00	-40.36														
WPIJ400	2	36	16	4.9 N		86	47	44.7 W		15.4	23.9	467.0750	65.61	-110.66	-16.5	-61.55	-105.29	-2.00	-40.40														
WQZB862	1	36	7	6.8 N		86	40	17.4 W		17.6	98.4	467.0375	66.44	-110.34	-16.5	-60.40	-106.45	-2.00	-40.41														
WQXD717	1	36	34	15.7 N		87	14	16.8 W		58.3	325.2	468.5000	58.13	-91.63	-16.5	-50.00	-116.88	-2.00	-40.41														
WRRY207	1	36	11	11.4 N		86	50	23.9 W		5.6	24.3	467.4625	65.65	-119.50	-16.5	-70.35	-96.51	-2.00	-40.41														
WQJF433	2	36	7	5 N																													

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

SORTED																				LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)					
WQVQ639	1	36	9	35.2 N		86	46	18.7 W		8.7	75.9	467.4375	66.42	-117.63	-16.5	-67.72	-100.33	-2.00	-41.61					
WDRN225	1	35	58	43.3 N		86	53	20.6 W		18.1	186.7	467.8750	63.23	-108.10	-16.5	-61.38	-106.71	-2.00	-41.63					
WQVW513	3	36	7	53.2 N		86	40	9.4 W		17.7	93.3	467.1875	66.49	-111.61	-16.5	-61.62	-106.50	-2.00	-41.68					
WRQJ214	1	36	7	48.4 N		86	40	10.9 W		17.7	93.8	467.1875	66.49	-111.61	-16.5	-61.62	-106.50	-2.00	-41.68					
WQJQ877	136	36	13	53.2 N		86	30	46.2 W		33.3	72.2	467.9250	66.39	-106.03	-16.5	-56.13	-112.00	-2.00	-41.68					
WPKQ232	2	36	12	8.1 N		86	34	30 W		67.5	22.5	468.1750	65.57	-99.07	-16.5	-50.00	-118.14	-2.00	-41.70					
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	467.8125	66.33	-111.74	-16.5	-61.91	-106.26	-2.00	-41.72					
WQHE537	20	35	55	7 N		86	49	39 W		24.9	172.1	467.9000	64.62	-106.81	-16.5	-58.69	-109.48	-2.00	-41.72					
WQAZ704	7	35	53	55.6 N		86	52	47.6 W		26.9	182.7	467.9500	63.70	-105.24	-16.5	-58.04	-110.15	-2.00	-41.73					
KD26551	1	36	0	29.2 N		86	35	46 W		28.4	121.3	467.8875	66.30	-107.38	-16.5	-57.58	-110.62	-2.00	-41.75					
WQVW590	2	36	15	11.2 N		86	40	34 W		21.1	53.6	466.9500	66.25	-109.92	-16.5	-60.16	-108.02	-2.00	-41.75					
WQCB985	1	36	7	47.4 N		86	39	57.5 W		19	93.8	465.1375	66.49	-111.57	-16.5	-61.57	-106.61	-2.00	-41.78					
WRRU631	13	35	58	9 N		86	48	15.1 W		19.8	163.9	467.8500	65.28	-109.56	-16.5	-60.78	-107.49	-2.00	-41.81					
WPLV778	3	35	59	22.2 N		86	49	21 W		17.2	167.0	467.0625	65.01	-110.55	-16.5	-62.04	-106.25	-2.00	-41.86					
WQDS321	2	36	12	48.5 N		86	41	53 W		17.1	61.7	467.2250	66.32	-111.93	-16.5	-62.11	-106.20	-2.00	-41.87					
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	468.0250	66.44	-102.88	-16.5	-52.94	-115.43	-2.00	-41.92					
WQJL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.4375	66.39	-117.63	-16.5	-67.75	-100.63	-2.00	-41.93					
WPPQ708	2	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.6625	53.08	-109.56	-16.5	-51.72	-116.70	-2.00	-41.95					
WQNZ346	3	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.6625	53.08	-109.56	-16.5	-51.72	-116.70	-2.00	-41.95					
WQHE537	21	36	19	7 N		86	36	2 W		30.9	50.2	467.9000	66.22	-106.81	-16.5	-57.09	-111.35	-2.00	-41.99					
WQHE537	19	36	11	38 N		86	37	3 W		23.1	75.1	467.8500	66.42	-109.56	-16.5	-59.64	-108.82	-2.00	-42.01					
WQHE537	7	36	2	42 N		86	39	51 W		23	120.4	467.8375	66.30	-110.28	-16.5	-60.48	-108.00	-2.00	-42.02					
WQHE537	9	35	57	55 N		86	48	3 W		20.3	163.4	467.8500	65.28	-109.56	-16.5	-60.78	-107.70	-2.00	-42.03					
WQHE537	6	36	17	32 N		86	42	11 W		22.3	40.8	467.8500	66.09	-109.56	-16.5	-59.97	-108.52	-2.00	-42.03					
KNEF390	3	35	59	22.2 N		86	49	21 W		17.2	167.0	465.4500	65.01	-110.76	-16.5	-62.25	-106.22	-2.00	-42.06					
WQCP235	7	35	45	59.4 N		86	23	33.3 W		59.5	134.2	468.0875	66.18	-101.17	-16.5	-51.49	-117.05	-2.00	-42.08					
WQCG409	2	36	16	8.7 N		86	39	10.1 W		23.8	53.2	466.6375	66.25	-109.27	-16.5	-59.51	-109.06	-2.00	-42.14					
WQCB375	3	36	18	10.7 N		86	41	30 W		20.3	93.3	466.2600	66.07	-109.20	-16.5	-59.63	-108.94	-2.00	-42.15					
WZC700	12	35	53	10 N		86	52	54 W		28.3	182.9	467.9500	63.70	-105.24	-16.5	-58.04	-110.59	-2.00	-42.17					
WQRW312	8	36	8	0.8 N		86	46	20.8 W		8.4	95.5	467.4500	66.47	-118.57	-16.5	-68.60	-100.03	-2.00	-42.18					
WRAA595	1	36	8	54.4 N		86	47	53 W		6.1	82.0	467.4875	66.44	-121.37	-16.5	-71.42	-97.25	-2.00	-42.23					
WQAZ704	6	35	52	23.3 N		86	28	47.2 W		45.7	130.5	468.0000	66.22	-103.67	-16.5	-53.95	-114.75	-2.00	-42.25					
WPKQ232	2	36	12	8.1 N		86	34	30 W		67.5	22.5	468.1500	65.57	-99.67	-16.5	-50.60	-118.14	-2.00	-42.28					
WQTS498	1	35	53	39.9 N		86	51	53 W		27.3	179.8	467.9250	64.01	-106.03	-16.5	-58.11	-110.28	-2.00	-42.34					
WQOB899	10	35	57	12.5 N		86	48	51.4 W		21.3	167.5	466.6000	65.01	-109.19	-16.5	-60.68	-108.10	-2.00	-42.35					
WQVY967	1	36	16	2.5 N		86	44	46.2 W		17.7	37.3	467.2125	66.03	-111.83	-16.5	-62.29	-106.50	-2.00	-42.35					
WNPV397	9	36	5	48.7 N		87	25	3.5 W		49.9	264.5	468.7500	49.76	-86.56	-16.5	-53.30	-115.53	-2.00	-42.36					
WQCD910	2	36	18	36.2 N		86	42	53 W		23.2	35.7	466.0500	65.99	-109.49	-16.5	-60.00	-108.83	-2.00	-42.41					
WPPD303	2	36	12	34.2 N		86	41	40 W		17.2	63.5	467.2500	66.33	-112.43	-16.5	-62.60	-106.25	-2.00	-42.41					
WQJQ877	136	36	13	53.2 N		86	30	46.2 W		33.3	72.2	467.9000	66.39	-106.81	-16.5	-56.92	-112.00	-2.00	-42.47					
WPRH945	2	36	19	30.2 N		86	42	24 W		24.9	34.8	466.4375	65.97	-108.93	-16.5	-59.46	-109.45	-2.00	-42.48					
WQHE537	33	35	58	57 N		86	33	11 W		33.2	122.0	467.9000	66.29	-106.81	-16.5	-57.02	-111.98	-2.00	-42.54					
WPEC304	4	36	48	26.6 N		87	24	58.3 W		88.9	326.6	468.5625	58.37	-90.35	-16.5	-48.48	-120.54	-2.00	-42.55					
WQCD910	2	36	18	36.2 N		86	42	53 W		23.2	35.7	466.8250	65.99	-109.66	-16.5	-60.16	-108.84	-2.00	-42.57					
KNNF902	2	36	41	44.2 N		86	8	54.9 W		89	45.9	468.2125	66.16	-98.17	-16.5	-48.51	-120.55	-2.00	-42.59					
WQK661	15	35	57	21.6 N		86	48	53.5 W		21	167.5	467.8500	65.01	-109.56	-16.5	-61.05	-108.00	-2.00	-42.60					
WPDY208	2	36	31	21.2 N		87	21	5 W		60.8	314.4	468.5500	55.23	-90.61	-16.5	-51.87	-117.24	-2.00	-42.65					
WQFA564	1	36	17	57.8 N		86	42	1.1 W		23	40.0	466.9625	66.09	-109.94	-16.5	-60.35	-108.77	-2.00	-42.69					
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	468.0000	66.44	-103.67	-16.5	-53.73	-115.43	-2.00	-42.70					
WQIE541	4	36	9	27.4 N		86	22	59.1 W		43.5	87.4	467.9625	66.49	-104.85	-16.5	-54.85	-114.32	-2.00	-42.72					
WQHE537	19	36	11	38 N		86	37	3 W		23.1	75.1	467.8375	66.42	-110.28	-16.5	-60.37	-108.82	-2.00	-42.74					
WQFA650	1	35	57	38.3 N		86	48	37.2 W		20.6	166.1	466.9625	65.08	-109.94	-16.5	-61.37	-107.81	-2.00	-42.74					
WQHE537	9	35	57	55 N		86	48	3 W		20.3	163.4	467.8375	65.28	-110.28	-16.5	-61.51	-107.70	-2.00	-42.76					
WQVL907	1	36	9	39 N		86	46	50 W		8	73.7	467.4625	66.40	-119.50	-16.5	-69.60	-99.61	-2.00	-42.76					
WQHE537	6	36	17	32 N		86	42	11 W		22.3	40.8	467.8375	66.09	-110.28	-16.5	-60.69	-108.52	-2.00	-42.76					
KR67713	12	36	7	53.2 N		86	40	9.4 W		17.7	93.3	467.2625	66.49	-112.75	-16.5	-62.76	-106.50	-2.00	-42.80					
WRRM678	1	3																						

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED						
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)		
KD26551	1	36	0	29.2 N		86	35	46 W		28.4	121.3	466.7125	66.30	-109.42	-16.5	-59.62	-110.60	-2.00						-43.79		
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.4625	66.39	-119.50	-16.5	-69.61	-100.63	-2.00						-43.79		
WPMMA35	2	36	32	1.2 N		87	25	44 W		66.8	311.0	468.5750	54.38	-90.09	-16.5	-52.21	-118.06	-2.00						-43.81		
WRDM225	1	35	58	43.3 N		86	53	20.6 W		18.1	186.7	467.8375	63.23	-110.28	-16.5	-63.56	-106.71	-2.00						-43.81		
WQAZ704	6	35	52	23.3 N		86	28	47.2 W		45.7	130.5	467.9500	66.22	-105.24	-16.5	-55.52	-114.75	-2.00						-43.83		
WQHS337	33	35	58	5.7 N		86	33	11 W		33.2	122.0	467.8750	66.29	-108.10	-16.5	-58.32	-111.98	-2.00						-43.84		
WNSUR28	1	36	0	29.2 N		86	35	46 W		28.4	121.3	466.7375	66.30	-109.47	-16.5	-59.66	-110.60	-2.00						-43.84		
WPQI467	2	36	0	20.2 N		86	35	30 W		28.9	121.3	466.1500	66.30	-109.35	-16.5	-59.55	-110.74	-2.00						-43.87		
WNSUR28	1	36	0	29.2 N		86	35	46 W		28.4	121.3	466.7875	66.30	-109.58	-16.5	-59.78	-110.60	-2.00						-43.95		
KD26551	1	36	0	29.2 N		86	35	46 W		28.4	121.3	466.8375	66.30	-109.68	-16.5	-59.88	-110.60	-2.00						-44.05		
WQSG462	3	36	1	7.8 N		86	35	11.1 W		28.6	118.3	466.8250	66.32	-109.66	-16.5	-59.83	-110.66	-2.00						-44.06		
WPKQ232	2	36	42	8.1 N		86	34	30 W		67.5	122.5	468.0750	65.57	-109.67	-16.5	-62.40	-118.14	-2.00						-44.09		
WQYA383	12	36	42	12.6 N		86	8	10.6 W		90.4	46.0	468.1500	66.18	-109.67	-16.5	-60.49	-120.68	-2.00						-44.21		
WRDP757	2	36	1	22.2 N		86	33	59.7 W		29.9	115.9	466.7250	66.35	-109.45	-16.5	-59.60	-111.04	-2.00						-44.21		
WNSUR28	1	36	0	29.2 N		86	35	46 W		28.4	121.3	466.9375	66.30	-109.89	-16.5	-60.09	-110.60	-2.00						-44.26		
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	467.9500	66.44	-105.24	-16.5	-55.30	-115.43	-2.00						-44.27		
WQAZ724	1	35	59	45.1 N		86	36	12.1 W		28.6	124.3	466.9125	66.28	-109.84	-16.5	-60.06	-110.66	-2.00						-44.29		
WNSR200	1	36	12	34.2 N		86	41	40 W		17.2	63.5	467.7625	66.33	-114.32	-16.5	-64.49	-106.26	-2.00						-44.30		
WPGH743	5	35	55	10.5 N		86	42	55.7 W		28	151.2	466.8000	65.84	-109.60	-16.5	-60.26	-110.48	-2.00						-44.31		
KD26551	1	36	0	29.2 N		86	35	46 W		28.4	121.3	466.9625	66.30	-109.94	-16.5	-60.14	-110.60	-2.00						-44.31		
WPEM789	2	36	17	46.2 N		86	35	4 W		30.6	55.5	466.6500	66.27	-109.29	-16.5	-59.52	-111.24	-2.00						-44.33		
WRAH504	4	35	55	42.7 N		86	51	51.2 W		23.6	179.7	466.6875	64.01	-109.37	-16.5	-61.86	-108.99	-2.00						-44.42		
WQTS498	1	35	53	39.9 N		86	51	53 W		27.3	179.8	467.8750	64.01	-108.10	-16.5	-60.59	-110.28	-2.00						-44.42		
WQAZ704	2	35	35	36.4 N		87	2	15.7 W		62.7	194.3	468.1750	62.18	-109.07	-16.5	-53.39	-117.50	-2.00						-44.44		
WQHS537	8	36	4	4.7 N		86	57	14 W		10.5	229.5	467.9000	54.38	-106.81	-16.5	-68.93	-101.98	-2.00						-44.45		
WRUN423	6	35	57	19.0 N		86	45	52.2 W		22.5	156.2	465.1750	65.65	-111.47	-16.5	-62.32	-108.55	-2.00						-44.46		
WQHS537	20	35	55	7.7 N		86	49	39 W		24.9	172.1	467.8500	64.62	-109.56	-16.5	-61.44	-109.48	-2.00						-44.46		
WQWAB302	2	36	18	10.9 N		86	36	23 W		29.5	52.1	466.8750	66.24	-109.76	-16.5	-60.02	-110.93	-2.00						-44.51		
WPIQ708	2	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.5375	53.08	-90.86	-16.5	-54.28	-116.70	-2.00						-44.51		
WQZ5672	2	35	56	12.7 N		86	48	41.5 W		23.1	167.9	467.0750	65.01	-110.66	-16.5	-62.15	-108.81	-2.00						-44.52		
WQZA724	1	35	59	45.1 N		86	36	12.1 W		28.6	124.3	467.0125	66.28	-110.13	-16.5	-60.35	-110.66	-2.00						-44.57		
WNFL596	2	36	8	30.2 N		86	30	45 W		31.8	89.7	466.0500	66.51	-109.49	-16.5	-59.48	-111.57	-2.00						-44.58		
WQVGA483	4	35	54	50.2 N		86	49	17 W		25.5	171.0	466.8125	64.70	-109.63	-16.5	-61.43	-109.66	-2.00						-44.66		
WQFA464	1	36	17	57.8 N		86	42	1.1 W		40.0	72.3	467.2250	66.39	-111.93	-16.5	-62.34	-108.78	-2.00						-44.67		
WNSUR28	1	36	0	29.2 N		86	35	46 W		28.4	121.3	467.0375	66.30	-110.34	-16.5	-60.54	-110.60	-2.00						-44.71		
WPKQ232	2	36	42	8.1 N		86	34	30 W		67.5	122.5	468.0500	65.57	-102.09	-16.5	-53.02	-118.14	-2.00						-44.71		
WQVA224	15	36	13	32.2 N		86	47	1.4 W		11.9	37.9	467.4375	66.03	-117.63	-16.5	-68.10	-103.06	-2.00						-44.71		
WRHW495	2	36	10	11.7 N		86	30	5 W		32.9	84.2	466.6250	66.46	-109.24	-16.5	-59.28	-111.87	-2.00						-44.73		
WQFA650	1	35	57	38.3 N		86	48	37.2 W		20.6	166.1	467.2250	65.08	-111.93	-16.5	-63.35	-107.82	-2.00						-44.73		
WQHS537	21	36	19	7 N		86	36	2 W		30.9	50.2	467.8500	66.22	-109.56	-16.5	-59.84	-111.35	-2.00						-44.74		
WQYA383	12	36	42	12.6 N		86	8	10.6 W		90.4	46.0	468.1250	66.18	-100.27	-16.5	-50.59	-120.68	-2.00						-44.81		
WRRB373	1	36	9	51.1 N		86	46	46.8 W		8.2	71.4	467.4875	66.39	-121.37	-16.5	-71.48	-99.82	-2.00						-44.85		
WPNUS52	4	36	5	48.7 N		87	25	3.5 W		49.9	264.5	468.6250	49.76	-89.07	-16.5	-55.81	-115.53	-2.00						-44.81		
WQTU547	1	35	54	58.4 N		86	49	10.1 W		25.3	170.6	465.7375	64.78	-110.01	-16.5	-61.73	-109.58	-2.00						-44.89		
WPNUS52	9	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.5156	53.08	-91.31	-16.5	-54.73	-116.70	-2.00						-44.96		
WQYB676	1	36	0	15.5 N		86	31	35.1 W		34.1	116.4	466.5375	66.34	-109.66	-16.5	-59.22	-112.18	-2.00						-44.97		
WRUJ620	9	36	9	29.8 N		86	47	5.7 W		7.5	75.0	467.5000	66.42	-122.30	-16.5	-72.38	-99.05	-2.00						-44.98		
WQTU547	1	35	54	58.4 N		86	49	10.1 W		25.3	170.6	465.6875	64.78	-110.14	-16.5	-61.86	-109.57	-2.00						-45.02		
WPNUS52	9	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.5125	53.08	-91.38	-16.5	-54.79	-116.70	-2.00						-45.03		
WPIQ708	2	36	27	8.7 N		87	22	16.4 W		57.1	307.5	468.5125	53.08	-91.38	-16.5	-54.79	-116.70	-2.00						-45.03		
WQAZ704	2	35	35	36.4 N</																						

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WRMA455	1	36	11	34.1 N		86	28	51 W		35.1	80.4	466.8500	66.44	-109.73	-16.5	-59.77	-112.44	-2.00	-45.78														
WRUN723	8	35	55	49 N		86	49	20.2 W		23.7	170.6	465.1750	64.78	-111.47	-16.5	-63.19	-109.00	-2.00	-45.78														
WRPR963	1	36	11	4.9 N		86	28	32.2 W		35.4	82.0	466.8375	66.44	-109.68	-16.5	-59.74	-112.51	-2.00	-45.82														
WRPR963	1	36	11	4.9 N		86	28	32.2 W		35.4	82.0	466.8500	66.44	-109.71	-16.5	-59.76	-112.51	-2.00	-45.84														
WRTC539	1	36	31	15 N		87	13	10.6 W		52.8	323.2	468.2438	57.62	-97.41	-16.5	-56.30	-116.01	-2.00	-45.85														
WQNE407	2	36	11	3.6 N		86	36	44.5 W		38.1	82.6	466.5500	66.44	-109.08	-16.5	-59.14	-113.15	-2.00	-45.86														
WQTS498	1	35	53	39.9 N		86	51	53 W		27.3	179.8	467.8500	64.01	-109.56	-16.5	-62.05	-110.28	-2.00	-45.87														
WRFM580	5	35	54	17.9 N		86	52	59.6 W		26.2	183.5	466.7875	63.59	-109.58	-16.5	-62.49	-109.90	-2.00	-45.96														
WQQV442	5	36	18	42 N		86	36	21 W		30.1	50.7	467.8250	66.22	-111.01	-16.5	-61.29	-111.12	-2.00	-45.97														
WQTB808	2	36	13	54.1 N		86	28	47.4 W		36.1	73.6	466.8125	66.40	-109.63	-16.5	-59.73	-112.68	-2.00	-45.98														
WQYA383	12	36	42	12.6 N		86	8	10.6 W		90.4	46.0	468.0750	66.18	-101.47	-16.5	-51.79	-120.68	-2.00	-45.99														
WQHE537	33	35	58	57 N		86	33	11 W		33.2	122.0	467.8375	66.29	-110.28	-16.5	-60.50	-111.97	-2.00	-46.02														
WQOB216	1	36	9	28.6 N		86	47	1.7 W		7.6	75.4	467.5125	66.42	-123.23	-16.5	-73.31	-99.16	-2.00	-46.03														
WQHE537	7	36	2	42 N		86	39	51 W		21	120.4	467.7625	66.30	-114.32	-16.5	-64.52	-107.99	-2.00	-46.06														
WQQT469	2	35	57	59.7 N		86	29	21.2 W		39	119.7	466.4125	66.32	-108.97	-16.5	-59.15	-113.35	-2.00	-46.07														
WQQT469	2	35	57	59.7 N		86	29	21.2 W		39	119.7	466.5000	66.32	-108.98	-16.5	-59.16	-113.35	-2.00	-46.08														
WRLC798	2	36	4	9.5 N		86	26	46.2 W		34.6	101.8	466.6000	66.43	-109.19	-16.5	-59.25	-113.26	-2.00	-46.09														
KJNB544	2	36	6	47.2 N		86	41	33 W		15.9	101.2	467.4250	66.43	-116.90	-16.5	-66.96	-105.57	-2.00	-46.09														
WQQT469	6	35	57	37.6 N		86	29	21.4 W		39.4	120.6	466.4625	66.30	-108.90	-16.5	-59.10	-113.44	-2.00	-46.11														
KYU718	4	36	18	5.2 N		86	37	42 W		27.8	49.9	465.0250	66.21	-111.86	-16.5	-62.15	-110.38	-2.00	-46.13														
WQQT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	466.3875	66.30	-109.00	-16.5	-59.20	-113.37	-2.00	-46.14														
WQQT469	2	35	57	59.7 N		86	29	21.2 W		39	119.7	466.3250	66.32	-109.09	-16.5	-59.27	-113.35	-2.00	-46.20														
WQQT469	6	35	57	37.6 N		86	29	21.4 W		39.4	120.6	466.5125	66.30	-109.00	-16.5	-59.20	-113.44	-2.00	-46.21														
WPPA592	2	36	25	5.2 N		86	44	30 W		32.7	19.8	466.8625	65.41	-109.73	-16.5	-60.82	-111.82	-2.00	-46.21														
WQQT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	466.3250	66.30	-109.09	-16.5	-59.29	-113.37	-2.00	-46.23														
WQY5596	1	35	57	48.4 N		86	29	25.6 W		39.1	120.2	466.3250	66.30	-109.09	-16.5	-59.29	-113.37	-2.00	-46.23														
WQAZ704	2	35	35	36.6 N		87	2	15.7 W		62.7	194.3	468.1000	62.18	-100.87	-16.5	-55.19	-117.50	-2.00	-46.40														
WREN807	3	36	9	53 N		86	46	7.8 W		7.8	75.3	467.5125	66.42	-123.23	-16.5	-73.31	-99.39	-2.00	-46.26														
WRUN723	12	35	56	33.3 N		86	39	9.4 W		29.2	139.0	465.1750	66.10	-111.47	-16.5	-61.86	-110.81	-2.00	-46.27														
WQGL984	1	35	51	36.9 N		86	21	8.3 W		55.8	123.9	467.9250	66.28	-106.03	-16.5	-56.24	-116.49	-2.00	-46.27														
WQVG483	3	35	54	58.7 N		86	49	10.5 W		25.3	170.6	467.1625	64.78	-111.40	-16.5	-63.12	-109.60	-2.00	-46.28														
WPKQ232	2	36	42	8.1 N		86	34	30 W		67.5	22.5	468.0000	65.57	-103.67	-16.5	-54.60	-118.14	-2.00	-46.28														
WNYT793	1	35	54	59.2 N		86	53	43 W		25	183.8	465.6125	63.59	-110.34	-16.5	-63.25	-109.47	-2.00	-46.28														
WRHW496	2	36	2	34.1 N		86	57	43.2 W		13.9	218.5	466.6250	57.35	-109.24	-16.5	-68.39	-104.39	-2.00	-46.35														
WNNI348	4	36	0	49.2 N		86	34	59 W		29.1	119.0	465.0500	66.32	-111.79	-16.5	-61.97	-110.78	-2.00	-46.35														
WPPA592	2	36	25	5.2 N		86	44	30 W		32.7	19.8	466.9375	65.41	-109.89	-16.5	-60.98	-111.83	-2.00	-46.37														
WRUN723	10	35	56	22.1 N		86	52	41.1 W		22.4	182.9	465.1750	63.70	-111.47	-16.5	-64.27	-108.51	-2.00	-46.37														
WQVP754	1	35	57	25 N		86	48	49 W		20.9	167.1	467.2875	65.01	-113.39	-16.5	-64.88	-107.94	-2.00	-46.37														
WNRN750	2	36	3	28.8 N		86	26	7.7 W		39.8	103.3	466.6125	66.42	-109.21	-16.5	-59.29	-113.53	-2.00	-46.39														
WQBE964	1	35	54	26.1 N		86	53	54.7 W		26.1	186.5	468.8500	63.23	-109.71	-16.5	-62.98	-109.87	-2.00	-46.41														
WPEE492	3	35	59	53.2 N		86	35	20 W		29.5	122.5	467.2000	66.29	-111.72	-16.5	-61.93	-110.94	-2.00	-46.43														
WQQT469	6	35	57	37.6 N		86	29	21.4 W		39.4	120.6	466.6375	66.30	-109.27	-16.5	-59.46	-113.44	-2.00	-46.47														
WQHE537	5	35	50	47 N		86	25	4 W		51.9	129.0	467.9000	66.23	-106.81	-16.5	-57.08	-115.86	-2.00	-46.48														
WRUR813	1	35	52	40 N		86	23	10 W		52.2	124.0	467.9000	66.28	-106.81	-16.5	-57.03	-115.91	-2.00	-46.48														
WNYT793	1	35	54	59.2 N		86	53	3 W		25	183.8	465.5375	63.59	-110.53	-16.5	-63.44	-109.47	-2.00	-46.50														
WQIT898	10	35	50	47 N		86	24	58 W		52.2	128.8	467.9000	66.24	-106.81	-16.5	-57.07	-115.89	-2.00	-46.50														
WQQT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	466.6875	66.30	-109.37	-16.5	-59.56	-113.37	-2.00	-46.51														
WRUN424	12	35	56	25.7 N		86	39	3.8 W		29.5	139.1	465.1125	66.10	-111.63	-16.5	-62.03	-110.90	-2.00	-46.52														
WQUT793	2	36	8	33.2 N		86	23	43.8 W		42.3	89.6	466.4875	66.51	-108.95	-16.5	-58.94	-114.05	-2.00	-46.52														
WRDN225	1	35	58	43.3 N		86	53	20.6 W		18.1	186.7	467.7875	63.23	-113.09	-16.5	-66.32	-106.70	-2.00	-46.57														

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WQGN459	10	35	53	54 N		86	52	54 W		26.9	183.1	465.5000	63.59	-110.63	-16.5	-63.54	-110.10	-2.00	-47.24					-47.24									
WQQT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	467.0125	66.30	-110.13	-16.5	-60.32	-113.38	-2.00	-47.27					-47.27									
WRKN775	3	36	2	46.5 N		86	24	26 W		104.2	104.2	466.7500	66.42	-109.50	-16.5	-59.58	-114.12	-2.00	-47.27					-47.27									
WRUN423	7	35	54	48.7 N		86	52	29.3 W		25.6	181.9	465.1750	63.82	-111.47	-16.5	-64.15	-109.53	-2.00	-47.28					-47.28									
WQCP235	10	35	57	43 N		86	33	24.1 W		34.2	125.5	465.2500	66.27	-111.27	-16.5	-61.50	-112.18	-2.00	-47.27					-47.27									
WQTU547	1	35	54	58.4 N		86	49	10.1 W		25.3	170.6	467.8000	64.78	-112.41	-16.5	-64.13	-109.61	-2.00	-47.29					-47.29									
WRWB328	2	35	57	30.2 N		86	49	11 W		20.7	168.5	467.3250	64.93	-114.35	-16.5	-65.92	-107.86	-2.00	-47.34					-47.34									
WPVW981	2	36	44	8.8 N		87	28	40.5 W		85.9	320.6	468.4000	56.79	-93.86	-16.5	-53.56	-120.24	-2.00	-47.34					-47.34									
WRBW969	1	36	12	35.7 N		86	30	50.9 W		32.5	76.2	465.0000	66.42	-111.92	-16.5	-62.01	-111.74	-2.00	-47.34					-47.34									
WPBQ324	1	36	10	28.2 N		86	22	42 W		44	85.0	466.1500	66.47	-109.35	-16.5	-59.38	-114.39	-2.00	-47.38					-47.38									
WQCE381	1	36	35	0.5 N		86	41	22.3 W		51.6	17.7	467.9000	65.28	-106.81	-16.5	-58.03	-115.81	-2.00	-47.39					-47.39									
WQCT877	136	36	13	53.2 N		86	30	46.2 W		33.3	72.2	467.8125	66.39	-111.74	-16.5	-61.85	-112.00	-2.00	-47.39					-47.39									
WQYA383	12	36	42	12.6 N		86	8	10.6 W		90.4	46.0	468.0250	66.18	-102.88	-16.5	-53.20	-120.68	-2.00	-47.43					-47.43									
WQTU953	2	36	8	33.2 N		86	23	43.8 W		42.3	89.6	466.9125	66.51	-109.84	-16.5	-59.83	-114.06	-2.00	-47.45					-47.45									
WFS750	8	35	57	53 N		86	33	24 W		34	125.1	465.1625	66.27	-111.50	-16.5	-61.73	-112.13	-2.00	-47.46					-47.46									
WRPH252	2	35	53	44.4 N		86	55	2.1 W		180.7	466.9500	62.87	-109.92	-16.5	-63.55	-110.35	-2.00	-47.45					-47.45										
WQAZ704	2	35	35	36.4 N		87	2	15.7 W		194.3	468.0500	62.18	-102.09	-16.5	-56.42	-117.50	-2.00	-47.46					-47.46										
WRUL218	2	35	49	43.5 N		86	40	40.6 W		38.5	154.0	466.9375	65.73	-109.89	-16.5	-60.66	-113.24	-2.00	-47.47					-47.47									
WQXZ926	1	36	7	50 N		86	44	29.9 W		11.2	95.8	467.4875	66.47	-121.37	-16.5	-71.40	-102.53	-2.00	-47.48					-47.48									
WQDL307	31	36	9	58.9 N		86	46	16.3 W		9	71.4	467.5125	66.39	-123.23	-16.5	-73.34	-100.63	-2.00	-47.53					-47.53									
WRUL823	1	36	10	12.5 N		86	40	37.9 W		17.3	79.0	467.4375	66.43	-117.63	-16.5	-67.70	-106.31	-2.00	-47.55					-47.55									
WRNS629	1	36	15	59.7 N		86	40	24.3 W		22.2	50.9	467.3625	66.22	-115.30	-16.5	-65.59	-108.47	-2.00	-47.61					-47.61									
WPFS466	2	36	9	30.2 N		86	23	43.4 W		87.3	1 W	466.8750	66.49	-109.76	-16.5	-59.77	-114.28	-2.00	-47.62					-47.62									
WQVP754	1	35	57	25 N		86	48	49 W		20.9	167.1	467.3375	65.01	-114.67	-16.5	-66.16	-107.95	-2.00	-47.66					-47.66									
WQSR638	1	36	12	1 N		86	47	57.5 W		8.9	42.0	467.5125	66.12	-123.23	-16.5	-73.61	-100.53	-2.00	-47.70					-47.70									
WNZL596	2	36	1	23.1 N		86	47	27.1 W		14.7	152.8	467.4500	65.80	-118.57	-16.5	-69.26	-104.89	-2.00	-47.71					-47.71									
WRTN521	1	36	14	1.3 N		86	29	33.6 W		35.1	72.7	467.1875	66.39	-111.61	-16.5	-61.72	-112.45	-2.00	-47.73					-47.73									
WQHP822	2	35	53	59 N		86	53	33.2 W		26.9	185.2	465.4000	63.35	-110.89	-16.5	-64.03	-110.10	-2.00	-47.73					-47.73									
WQND532	6	35	53	59.3 N		86	53	33.4 W		26.9	185.2	465.4000	63.35	-110.89	-16.5	-64.03	-110.10	-2.00	-47.73					-47.73									
WRCF593	1	35	56	58.4 N		86	50	36.2 W		21.3	174.6	467.3125	64.45	-114.03	-16.5	-66.08	-108.11	-2.00	-47.75					-47.75									
WQHE537	5	35	50	47 N		86	25	4 W		51.9	129.0	467.8750	66.23	-108.10	-16.5	-58.37	-115.86	-2.00	-47.78					-47.78									
WRUA1813	1	35	52	40 N		86	23	10 W		52.2	124.0	467.8750	66.28	-108.10	-16.5	-58.32	-115.91	-2.00	-47.83					-47.83									
WPEE492	3	35	59	53.2 N		86	35	20 W		29.5	122.5	467.2750	66.29	-113.07	-16.5	-63.28	-110.94	-2.00	-47.78					-47.78									
WQCT898	10	35	50	47 N		86	24	58 W		52.1	128.9	467.8750	66.24	-108.10	-16.5	-58.36	-115.89	-2.00	-47.80					-47.80									
WQGM201	1	36	22	19 N		86	25	21 W		47.4	57.0	466.5125	66.28	-109.00	-16.5	-59.22	-115.04	-2.00	-47.84					-47.84									
WRDN225	1	35	58	43.3 N		86	53	20.6 W		18.1	186.7	467.7625	63.23	-114.32	-16.5	-67.59	-106.70	-2.00	-47.85					-47.85									
WPPA592	2	36	25	5.2 N		86	44	30 W		32.7	19.8	467.1625	65.41	-111.40	-16.5	-62.49	-111.83	-2.00	-47.88					-47.88									
WQTT449	3	35	44	33.8 N		86	57	26.2 W		44.9	190.6	467.9250	62.75	-106.03	-16.5	-59.78	-114.60	-2.00	-47.93					-47.93									
WQHE537	8	36	4	47 N		86	57	14 W		10.5	229.5	467.8375	54.38	-110.28	-16.5	-72.40	-100.98	-2.00	-47.93					-47.93									
WRUE588	2	36	2	46.6 N		86	24	37.5 W		104.3	467.0250	66.42	-110.23	-16.5	-60.32	-114.06	-2.00	-47.94					-47.94										
WQCV442	5	36	18	42 N		86	36	21 W		30.1	50.7	467.7875	66.22	-113.05	-16.5	-63.33	-111.12	-2.00	-48.00					-48.00									
WQTS498	1	35	53	39.9 N		86	51	53 W		27.3	179.8	467.8125	64.01	-111.74	-16.5	-64.23	-110.27	-2.00	-48.05					-48.05									
WQSL515	3	36	18	52.3 N		86	24	6.7 W		45.9	65.0	466.8000	66.35	-109.60	-16.5	-59.76	-114.77	-2.00	-48.09					-48.09									
WQCT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	467.1125	66.30	-110.98	-16.5	-61.17	-113.38	-2.00	-48.12					-48.12									
WQYA383	12	36	42	12.6 N		86	8	10.6 W		90.4	46.0	468.0000	66.18	-102.87	-16.5	-53.99	-120.68	-2.00	-48.21					-48.21									
WRVLS46	2	36	9	55.2 N		86	18	21.3 W		50.4	86.7	466.5375	66.48	-109.06	-16.5	-59.08	-115.58	-2.00	-48.23					-48.23									
WQCP335	1	36	14	0.5 N		86	18	31.5 W		51.1	78.2	466.4625	66.43	-108.90	-16.5	-58.97	-115.69	-2.00	-48.24					-48.24									
WQAZ704	2	35	35	36.4 N		87	2	15.7 W		62.7	194.3	468.0250	62.18	-102.88	-16.5	-57.21	-117.50	-2.00	-48.25														

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED						
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)		
WQUL987	7	35	56	38.5 N		86	23	19.7 W		48.2	116.9	465.5875	66.34	-110.40	-16.5	-60.56	-115.17	-2.00	-49.32							
WQUL987	5	35	51	28 N		86	28	8 W		47.6	131.3	465.5875	66.21	-110.40	-16.5	-60.69	-115.06	-2.00	-49.34							
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.6375	66.26	-110.27	-16.5	-60.51	-115.33	-2.00	-49.43							
WQKG440	4	35	48	7.9 N		86	23	29.9 W		56.9	131.3	466.4250	66.21	-108.95	-16.5	-59.24	-116.63	-2.00	-49.44							
WPFI389	6	36	28	4.2 N		86	28	37 W		50.3	43.6	466.9750	66.14	-109.97	-16.5	-60.33	-115.57	-2.00	-49.47							
WQHE537	21	36	19	7 N		86	26	7 W		30.9	50.2	467.7625	66.22	-114.32	-16.5	-64.60	-111.35	-2.00	-49.50							
WQFA578	1	35	50	51.4 N		86	25	30.9 W		51.3	129.3	466.9625	66.23	-109.94	-16.5	-60.21	-115.74	-2.00	-49.51							
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.6000	66.26	-110.37	-16.5	-60.61	-115.33	-2.00	-49.53							
WPPX251	4	36	9	27.4 N		86	22	59.1 W		43.5	87.4	465.1000	66.49	-111.66	-16.5	-61.67	-114.27	-2.00	-49.54							
WQTD049	3	36	30	3 N		86	52	9 W		39.9	359.5	466.8875	63.82	-109.79	-16.5	-62.47	-113.55	-2.00	-49.59							
WNPV397	14	36	30	24.2 N		86	52	51 W		40.6	358.1	466.0250	63.70	-109.53	-16.5	-62.33	-113.69	-2.00	-49.60							
WRRN221	50	36	2	46.6 N		86	24	25.7 W		42.6	104.2	467.2125	66.43	-111.83	-16.5	-61.91	-114.13	-2.00	-49.60							
WPPX251	5	36	12	17 N		86	22	13 W		45.1	80.8	465.2125	66.44	-111.37	-16.5	-61.43	-114.59	-2.00	-49.62							
WQHE537	32	35	44	48 N		86	56	8 W		44.2	188.2	467.8750	62.99	-108.10	-16.5	-61.62	-114.46	-2.00	-49.63							
WQFH798	1	35	50	45 N		86	25	1 W		52	129.0	466.9625	66.23	-109.94	-16.5	-60.21	-115.86	-2.00	-49.63							
WREX463	2	36	8	2.9 N		86	45	39.5 W		9.4	94.5	467.5375	66.48	-125.10	-16.5	-75.12	-101.01	-2.00	-49.68							
WPEF402	3	35	59	53.2 N		86	35	20 W		29.5	122.5	467.3500	66.29	-114.98	-16.5	-65.20	-110.94	-2.00	-49.69							
WPIV719	3	36	28	47.2 N		86	40	54 W		41.1	23.6	465.1875	65.61	-111.44	-16.5	-62.32	-113.78	-2.00	-49.70							
WPOF547	3	36	28	47.2 N		86	40	54 W		41.1	23.6	465.1875	65.61	-111.44	-16.5	-62.32	-113.78	-2.00	-49.70							
WQWX391	2	36	23	31 N		87	39	24 W		76.4	291.7	468.5875	49.38	-89.84	-16.5	-56.96	-119.23	-2.00	-49.72							
WQRM808	1	35	54	53.8 N		86	52	49.5 W		25.1	183.0	467.3000	63.59	-113.71	-16.5	-66.62	-109.54	-2.00	-49.72							
WPTM560	2	36	23	58 N		87	23	4 W		54.7	301.9	468.3875	50.73	-94.14	-16.5	-59.91	-116.32	-2.00	-49.77							
WQYA383	12	36	42	12.6 N		86	8	10.6 W		90.4	46.0	467.9500	66.18	-109.45	-16.5	-55.56	-120.68	-2.00	-49.78							
WFS750	10	35	51	19 N		86	28	5 W		47.8	131.5	465.4250	66.21	-110.82	-16.5	-61.11	-115.10	-2.00	-49.80							
WQGL984	1	35	51	36.9 N		86	21	8.3 W		55.8	123.9	467.8500	66.28	-109.56	-16.5	-59.77	-116.48	-2.00	-49.81							
WS8879	5	35	51	33 N		86	28	9 W		47.5	131.2	465.4000	66.21	-110.89	-16.5	-61.18	-115.04	-2.00	-49.81							
WQAZ704	2	35	35	36.4 N		87	2	15.7 W		62.7	194.3	467.9750	62.18	-104.45	-16.5	-58.78	-117.50	-2.00	-49.82							
WQBR639	3	36	1	37 N		87	21	8 W		45.6	254.0	468.3750	49.38	-94.42	-16.5	-61.55	-114.74	-2.00	-49.82							
WQTU547	1	35	54	58.4 N		86	49	10.1 W		25.3	170.6	467.7500	64.78	-114.96	-16.5	-66.66	-109.61	-2.00	-49.84							
WZX668	3	36	23	25.2 N		86	26	58 W		46.5	53.2	465.3000	66.25	-111.15	-16.5	-61.39	-114.85	-2.00	-49.84							
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.4750	66.26	-110.69	-16.5	-60.93	-115.33	-2.00	-49.85							
WQUL987	7	35	56	38.5 N		86	23	19.7 W		48.2	116.9	465.3750	66.34	-110.95	-16.5	-61.11	-115.17	-2.00	-49.87							
WS8879	5	35	51	33 N		86	28	9 W		47.5	131.2	465.3750	66.21	-110.95	-16.5	-61.24	-115.04	-2.00	-49.87							
WQKG440	4	35	48	7.9 N		86	23	29.9 W		56.9	131.3	466.7000	66.21	-109.40	-16.5	-59.69	-116.63	-2.00	-49.89							
WQUL987	5	35	51	28 N		86	28	8 W		47.6	131.3	465.3750	66.21	-110.95	-16.5	-61.24	-115.06	-2.00	-49.89							
WQW442	5	36	18	42 N		86	36	21 W		30.1	50.7	467.7500	66.22	-114.96	-16.5	-65.24	-111.12	-2.00	-49.91							
WPRA704	1	36	10	44.2 N		86	19	32.1 W		48.8	84.8	467.8250	66.46	-111.01	-16.5	-61.05	-115.32	-2.00	-49.92							
WNBQ788	10	35	50	13.2 N		86	24	27 W		53.3	129.2	467.0000	66.23	-110.02	-16.5	-60.29	-116.07	-2.00	-49.92							
WS8879	5	35	51	33 N		86	28	9 W		47.5	131.2	465.3500	66.21	-111.02	-16.5	-61.30	-115.04	-2.00	-49.94							
WNBQ788	11	35	46	1.2 N		86	23	38 W		59.4	134.3	466.3500	66.18	-109.66	-16.5	-59.38	-117.00	-2.00	-49.95							
WQW941	1	35	46	49.3 N		86	21	43 W		60.5	131.3	466.4375	66.21	-108.93	-16.5	-59.22	-117.16	-2.00	-49.96							
WQHE537	5	35	50	47 N		86	25	4 W		51.9	129.0	467.8375	66.23	-110.28	-16.5	-60.55	-115.86	-2.00	-49.96							
WZX668	6	36	28	2.1 N		86	28	36.9 W		50.3	43.7	465.5625	66.14	-110.47	-16.5	-60.83	-115.54	-2.00	-49.96							
WQTT449	3	35	44	33.8 N		86	57	26.2 W		44.9	190.6	467.8750	62.75	-108.10	-16.5	-61.86	-114.40	-2.00	-50.00							
WNBQ788	11	35	46	1.2 N		86	23	38 W		59.4	134.3	466.3750	66.18	-109.66	-16.5	-59.46	-117.00	-2.00	-50.03							
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.4000	66.26	-110.89	-16.5	-61.13	-115.33	-2.00	-50.05							
WQHE537	33	35	58	57 N		86	33	11 W		33.2	122.0	467.7625	66.29	-114.32	-16.5	-64.53	-111.97	-2.00	-50.05							
WQUL987	8	35	51	46 N		86	24	0 W		52.1	126.3	465.5875	66.26	-110.40	-16.5	-60.64	-115.85	-2.00	-50.08							
WPTM560	4	36	32	41 N		86	30	3 W		72.5	308.5	468.3625	53.42	-94.70	-16.5	-57.78	-118.77	-2.00	-50.09							
WQFI381	1	36	35	5.8 N		86	41	22.3 W		51.6	17.7	467.8500	65.28	-109.56	-16.5	-60.78	-115.81	-2.00	-50.13							
WQW941	1	35	46	49.3 N		86	21	43 W		60.5	131.3	466.5625														

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WQV663	2	36	36	7.1 N		86	31	20.7 W		59.7	30.8	466.7625	65.87	-109.53	-16.5	-60.15	-117.05	-2.00	-50.77														
WQKTR94	2	36	0	5.5 N		86	30	0.6 W		36.4	115.1	467.3250	66.35	-114.35	-16.5	-64.50	-112.76	-2.00	-50.82														
WRUN422	9	35	48	15.7 N		86	52	32.4 W		37.3	181.4	465.1125	63.82	-111.63	-16.5	-64.31	-112.94	-2.00	-50.85														
WQJ553	5	35	50	44 N		86	23	25.3 W		53.9	127.4	467.1000	66.25	-110.87	-16.5	-61.12	-116.17	-2.00	-50.85														
WQTT449	2	35	44	33.8 N		86	57	26.2 W		44.9	190.6	466.4875	62.75	-108.95	-16.5	-62.70	-114.57	-2.00	-50.85														
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.0875	66.26	-111.70	-16.5	-61.94	-115.32	-2.00	-50.86														
WSB879	2	35	30	38.2 N		86	23	31 W		53.9	127.6	465.4000	66.25	-110.89	-16.5	-61.13	-116.14	-2.00	-50.86														
WRVJ546	2	36	9	55.2 N		86	18	21.3 W		50.4	86.7	467.2000	66.48	-111.72	-16.5	-61.74	-115.59	-2.00	-50.89														
KS2237	3	36	29	26.5 N		86	52	2.6 W		38.8	359.8	465.2250	63.82	-111.34	-16.5	-64.02	-113.28	-2.00	-50.90														
WQEK235	3	36	29	26.5 N		86	52	2.6 W		38.8	359.8	465.2250	63.82	-111.34	-16.5	-64.02	-113.28	-2.00	-50.90														
WQK856	4	36	24	42.6 N		86	22	10.8 W		53.8	155.7	467.1125	66.27	-110.98	-16.5	-61.20	-116.15	-2.00	-50.92														
WNK8788	11	35	46	1.2 N		86	23	38 W		59.4	134.3	467.0000	66.38	-110.02	-16.5	-60.34	-117.01	-2.00	-50.92														
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.0625	66.26	-111.76	-16.5	-62.00	-115.32	-2.00	-50.92														
WSB879	2	35	30	38.2 N		86	23	31 W		53.9	127.6	465.3750	66.25	-110.95	-16.5	-61.20	-116.14	-2.00	-50.93														
WQK644	4	35	48	7.9 N		86	23	29.9 W		56.9	131.3	467.0500	66.21	-110.45	-16.5	-60.74	-116.64	-2.00	-50.94														
WRV703	1	36	13	54 N		86	19	46 W		49.3	78.0	465.0000	66.43	-111.92	-16.5	-61.99	-115.36	-2.00	-50.95														
WQY297	4	36	23	43.2 N		86	25	6 W		49.1	54.7	465.0375	66.26	-111.82	-16.5	-62.07	-115.32	-2.00	-50.99														
WSB879	2	35	30	38.2 N		86	23	31 W		53.9	127.6	465.3500	66.25	-111.02	-16.5	-61.26	-116.14	-2.00	-50.99														
WQEK235	5	36	32	40.6 N		86	42	20.9 W		47	17.6	465.2625	65.28	-111.24	-16.5	-62.46	-114.95	-2.00	-51.00														
WQCW941	3	35	46	47.6 N		86	20	58.2 W		61.4	130.7	466.9250	66.22	-109.86	-16.5	-60.15	-117.30	-2.00	-51.01														
KNV993	6	36	24	11.2 N		86	24	15.5 W		50.6	54.7	465.1250	66.26	-111.60	-16.5	-61.84	-115.58	-2.00	-51.02														
WQEK235	3	36	29	26.5 N		86	52	2.6 W		38.8	359.8	465.1563	63.82	-111.52	-16.5	-64.20	-113.28	-2.00	-51.07														
WQHE537	32	35	44	48 N		86	56	8 W		44.2	188.2	467.8500	62.99	-109.56	-16.5	-63.07	-114.46	-2.00	-51.08														
WQOP235	13	35	44	30 N		86	30	11 W		55.1	143.6	465.4625	66.03	-110.72	-16.5	-61.19	-116.33	-2.00	-51.11														
WQUN813	2	36	40	10 N		86	40	0 W		61.3	16.8	466.5000	65.21	-108.98	-16.5	-60.27	-117.28	-2.00	-51.12														
WQUN240	1	35	49	11.7 N		86	53	45.4 W		35.7	184.4	467.2250	63.46	-111.93	-16.5	-64.97	-112.59	-2.00	-51.12														
WSB879	4	35	49	16.1 N		86	23	35.6 W		55.4	129.8	465.4000	66.23	-110.89	-16.5	-61.15	-116.38	-2.00	-51.12														
WRCM453	1	35	57	31.1 N		86	29	48.8 W		38.9	121.3	467.3125	66.30	-114.03	-16.5	-64.23	-113.34	-2.00	-51.13														
WPPY736	3	36	22	42.6 N		87	2	18 W		30.6	329.7	466.4625	59.08	-108.98	-16.5	-66.32	-111.24	-2.00	-51.14														
WFS750	9	35	50	9.2 N		86	24	42.5 W		53.1	129.6	465.2500	66.23	-111.27	-16.5	-61.54	-116.01	-2.00	-51.14														
WRTB332	2	35	47	41.6 N		86	22	2.2 W		59.1	130.5	467.0375	66.22	-110.34	-16.5	-60.62	-116.97	-2.00	-51.15														
WRN221	50	36	2	46.6 N		86	24	25.7 W		42.6	104.2	467.2875	66.42	-113.39	-16.5	-63.47	-114.13	-2.00	-51.16														
KAG384	13	35	44	8.5 N		86	38	50 W		49.1	156.4	465.2000	65.65	-111.40	-16.5	-62.25	-115.32	-2.00	-51.18														
WQK440	2	35	47	58.4 N		86	23	32.7 W		57.1	131.6	467.0750	66.21	-111.66	-16.5	-60.95	-116.67	-2.00	-51.18														
WSB879	4	35	49	16.1 N		86	23	35.6 W		55.4	129.8	465.3750	66.23	-110.95	-16.5	-61.22	-116.38	-2.00	-51.19														
WQV663	2	36	36	7.1 N		86	31	20.7 W		59.7	30.8	466.9625	65.87	-109.94	-16.5	-60.57	-117.06	-2.00	-51.19														
WNBQ788	10	35	50	13.2 N		86	24	27 W		53.3	129.2	467.1000	66.23	-111.30	-16.5	-61.56	-116.07	-2.00	-51.20														
WQEK235	3	36	29	26.5 N		86	52	2.6 W		38.8	359.8	465.1063	63.82	-111.65	-16.5	-64.33	-113.28	-2.00	-51.20														
WQUN240	3	35	49	13.3 N		86	53	59.5 W		35.7	185.0	467.2250	63.35	-111.93	-16.5	-65.08	-112.59	-2.00	-51.23														
WQJ587	6	35	46	51.8 N		86	24	16.2 W		58.9	135.1	465.5875	66.16	-110.40	-16.5	-60.74	-116.91	-2.00	-51.24														
WSB879	4	35	49	16.1 N		86	23	35.6 W		55.4	129.8	465.3500	66.23	-111.02	-16.5	-61.28	-116.38	-2.00	-51.25														
WQJ544	5	36	8	35.9 N		87	17	31.9 W		38.4	270.5	468.2250	49.89	-97.87	-16.5	-64.47	-113.25	-2.00	-51.26														
WQHE537	36	35	32	3 N		86	13	35 W		88.7	139.3	467.9000	66.10	-106.81	-16.5	-57.21	-120.51	-2.00	-51.27														
WFS750	9	35	50	9.2 N		86	24	42.5 W		53.1	129.6	465.2000	66.23	-111.40	-16.5	-61.67	-116.00	-2.00	-51.27														
WRJ641	2	36	5	52.4 N		87	20	32.4 W		43.2	263.5	468.2750	49.72	-96.68	-16.5	-63.47	-114.27	-2.00	-51.28														
WQZ443	2	36	38	27.4 N		86	33	42.4 W		61.8	26.0	466.8000	65.79	-109.60	-16.5	-60.37	-117.35	-2.00	-51.29														
WKR8242	2	36	38	27.5 N		86	33	42.5 W		61.8	26.0	466.8000	65.73	-109.60	-16.5	-60.37	-117.35	-2.00	-51.29														
WPRA704	1	36	10	44.2 N		86	19	32.1 W		48.8	84.8	467.8000	66.46	-112.41	-16.5	-62.45	-115.32	-2.00	-51.32														
WQND532	7	36	8	54 N		86	12	47 W		58.7	89.0	465.4000	66.51	-110.89	-16.5	-60.88	-116.88	-2.00	-51.35														
WQK960	3	36	15	24 N		87	37	38 W		69.7	280.9	468.4625	49.55	-92.44	-16																		

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WNBO788	11	35	46	1.2 N		86	23	38 W		59.4	134.3	467.1500	66.18	-111.30	-16.5	-61.62	-117.01	-2.00	-52.19														
WFS750	7	35	46	0.2 N		86	23	32 W		59.6	134.2	465.2500	66.18	-111.27	-16.5	-61.60	-117.01	-2.00	-52.20														
WROU384	2	36	42	31.3 N		86	30	45.2 W		70.5	26.5	466.6875	65.73	-109.37	-16.5	-60.14	-118.49	-2.00	-52.20														
WQTT449	2	35	44	33.8 N		86	57	26.2 W		44.9	190.6	467.0375	62.75	-110.34	-16.5	-64.09	-114.58	-2.00	-52.24														
WQDS321	2	36	12	48.5 N		86	41	53 W		17.1	61.7	467.5000	66.32	-122.30	-16.5	-72.48	-106.21	-2.00	-52.24														
WQEE320	2	40	39	3.2 N		86	16	0 W		64.3	122.9	467.0875	66.29	-110.76	-16.5	-60.97	-117.70	-2.00	-52.24														
WRUZ687	1	35	44	58.2 N		86	55	14.8 W		43.7	186.5	467.1250	63.23	-111.08	-16.5	-64.35	-114.35	-2.00	-52.26														
WQYE381	1	36	35	0.5 N		86	41	22.3 W		51.6	17.7	467.8125	65.28	-111.74	-16.5	-62.96	-115.80	-2.00	-52.31														
WQOP235	7	35	45	59.4 N		86	23	33.3 W		59.5	134.2	465.2000	66.18	-111.40	-16.5	-61.73	-116.99	-2.00	-52.32														
WFS750	7	35	46	0.2 N		86	23	32 W		59.6	134.2	465.2000	66.18	-111.40	-16.5	-61.73	-117.01	-2.00	-52.33														
WPHY562	4	36	32	4.1 N		87	30	3 W		72.5	308.5	468.2625	53.42	-96.57	-16.5	-60.04	-118.77	-2.00	-52.35														
WQOP235	7	35	45	59.4 N		86	23	33.3 W		59.5	134.2	465.1625	66.18	-111.59	-16.5	-61.82	-116.99	-2.00	-52.41														
WRAC850	4	35	33	59.6 N		86	21	34.5 W		78.4	144.3	466.5000	66.02	-108.98	-16.5	-59.46	-119.41	-2.00	-52.45														
WROU384	2	36	42	31.3 N		86	30	45.2 W		70.5	26.5	466.8125	65.73	-109.63	-16.5	-60.40	-118.50	-2.00	-52.46														
WPMS332	1	36	16	12.2 N		86	52	18 W		14.3	357.8	467.4875	63.59	-121.37	-16.5	-74.28	-104.65	-2.00	-52.49														
KIF409	8	35	38	44.4 N		86	55	11.3 W		55.2	185.1	466.1000	63.35	-109.42	-16.5	-62.57	-116.36	-2.00	-52.50														
WQHE537	36	35	32	6.2 N		86	13	35 W		88.7	139.1	467.8750	66.19	-108.10	-16.5	-58.50	-120.51	-2.00	-52.56														
WNJR151	3	36	41	18.1 N		86	29	11 W		69.6	29.0	466.9750	65.84	-109.97	-16.5	-60.61	-118.39	-2.00	-52.58														
WOXN366	1	36	3	5.9 N		86	23	40.7 W		43.5	103.1	467.3375	66.42	-114.67	-16.5	-64.74	-114.31	-2.00	-52.61														
WQVA224	3	36	0	2.8 N		86	29	21.8 W		37.3	114.6	467.3875	66.35	-115.94	-16.5	-66.09	-112.98	-2.00	-52.62														
KNIV993	4	36	35	14.4 N		86	31	13.4 W		58.4	31.8	465.1250	65.90	-111.60	-16.5	-62.20	-116.83	-2.00	-52.63														
WQRA282	1	36	29	16.6 N		86	47	0 W		39.2	10.8	467.3125	64.78	-114.03	-16.5	-65.75	-113.41	-2.00	-52.71														
WRCK784	1	35	57	6.3 N		86	48	38.2 W		21.6	166.8	467.4625	65.86	-110.50	-16.5	-70.92	-108.23	-2.00	-52.71														
KNIV993	4	36	35	14.4 N		86	31	13.4 W		58.4	31.8	465.0750	65.90	-111.73	-16.5	-62.33	-116.83	-2.00	-52.76														
WDH861	1	36	6	37.2 N		86	58	1 W		9.7	249.6	465.4000	49.38	-110.89	-16.5	-78.00	-101.24	-2.00	-52.84														
WRCT956	1	35	46	48.8 N		86	22	11.5 W		60	131.8	465.0000	66.21	-111.92	-16.5	-62.21	-117.06	-2.00	-52.87														
WQSD416	1	35	32	44.8 N		86	38	4.4 W		69.2	162.5	466.9125	65.35	-109.84	-16.5	-60.99	-118.34	-2.00	-52.89														
WQTT449	3	35	44	33.8 N		86	57	26.2 W		44.9	190.6	467.0375	62.75	-110.31	-16.5	-64.76	-114.60	-2.00	-52.91														
WPMA747	2	35	45	4.2 N		86	55	47 W		43.6	187.6	465.0625	63.11	-111.76	-16.5	-65.15	-114.29	-2.00	-53.04														
WQWF804	2	36	21	5.7 N		86	5	32.6 W		73.3	71.1	467.0625	66.39	-110.55	-16.5	-60.66	-118.84	-2.00	-53.07														
WRFN221	50	36	2	46.6 N		86	24	25.7 W		42.6	104.2	467.3625	66.44	-115.30	-16.5	-65.39	-114.13	-2.00	-53.08														
WQSF494	3	36	12	39.3 N		86	19	19 W		49.5	80.7	467.3125	66.44	-114.03	-16.5	-64.09	-115.43	-2.00	-53.08														
KWO403	3	35	39	36 N		86	18	14 W		73.6	136.4	465.6250	66.15	-110.30	-16.5	-60.66	-118.85	-2.00	-53.09														
WQSA444	5	36	16	44 N		86	40	12.6 W		40.3	48.7	467.4750	66.20	-120.43	-16.5	-70.73	-108.49	-2.00	-53.18														
WRRS977	5	36	12	24.8 N		86	41	32.7 W		17.2	64.7	467.5125	66.34	-123.23	-16.5	-73.39	-106.26	-2.00	-53.20														
WQDQ501	1	35	59	45.8 N		86	29	39.7 W		37.1	115.6	467.4125	66.35	-116.58	-16.5	-66.73	-112.93	-2.00	-53.22														
WQHE537	28	36	11	1.2 N		86	19	33 W		48.8	83.8	467.7625	66.45	-114.32	-16.5	-64.37	-115.32	-2.00	-53.24														
WYK530	11	35	43	26.7 N		86	59	16.2 W		47.5	193.4	465.5750	62.33	-110.43	-16.5	-64.61	-115.04	-2.00	-53.24														
WQCV360	1	35	50	4.4 N		86	24	53.6 W		53	129.9	467.2875	66.23	-113.39	-16.5	-63.66	-116.03	-2.00	-53.24														
WQPK719	4	36	33	57.2 N		86	15	50 W		71.7	131.6	465.4500	66.20	-110.76	-16.5	-61.05	-118.62	-2.00	-53.26														
WQCV203	2	35	38	12.2 N		86	41	52 W		57.9	164.9	465.0875	65.21	-111.70	-16.5	-62.98	-116.75	-2.00	-53.34														
WQCV857	1	35	49	22 N		86	21	21 W		58	127.5	467.2625	66.25	-112.75	-16.5	-63.00	-116.81	-2.00	-53.37														
WQGT469	4	35	57	50 N		86	29	25.5 W		39.1	120.1	467.4000	66.30	-116.26	-16.5	-66.46	-113.39	-2.00	-53.40														
KNINP02	2	36	41	44.2 N		86	8	54.9 W		89	45.9	466.5125	66.16	-109.00	-16.5	-59.34	-120.52	-2.00	-53.43														
KNINP02	2	36	41	44.2 N		86	8	54.9 W		89	45.9	466.5250	66.16	-109.03	-16.5	-59.37	-120.52	-2.00	-53.46														
WPMFM299	2	36	41	44.2 N		86	8	54.9 W		89	45.9	466.5250	66.16	-109.03	-16.5	-59.37	-120.52	-2.00	-53.46														
KNDS30	2	35	57	48.2 N		86	29	13 W		39.4	120.0	467.4000	66.30	-116.26	-16.5	-66.46	-113.45	-2.00	-53.47														
WQTR751	1	36	26	43.6 N		87	4	47.6 W		38.9	330.5	466.7000	59.31	-109.40	-16.5	-66.59	-113.33	-2.00	-53.49														
WNN5074	2	36	33	35.2 N		86	14	28 W		72.8	50.0	467.1000	66.22	-110.87	-16.5	-61.15	-118.78	-2.00	-53.50														
WQRA282	2	35	47	58.4 N		86	23	32.7 W		57.1	131.6	467.2750	66.21	-113.07	-16.5	-63.36	-116.67	-2.00	-53.59														

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																			SORTED						
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)	
WPMN299	2	36	41	44.2 N		86	8	54.9 W		89	45.9	467.0250	66.16	-110.23	-16.5	-60.57	-120.52	-2.00	-54.66						
WKY530	9	35	38	13.7 N		86	54	6.1 W		56	183.3	465.0750	63.59	-111.73	-16.5	-64.64	-116.46	-2.00	-54.71						
WRKC580	2	35	37	20.6 N		87	3	59.8 W		60.3	197.5	466.2000	61.75	-109.27	-16.5	-64.02	-117.13	-2.00	-54.73						
WQHE537	36	35	32	3 N		86	13	35 W		88.7	139.3	467.8375	66.10	-110.28	-16.5	-60.68	-120.51	-2.00	-54.74						
WRWB895	2	35	53	10.5 N		86	22	15.9 W		52.8	122.3	467.3500	66.29	-114.98	-16.5	-65.20	-116.00	-2.00	-54.75						
WQYE381	1	36	35	0.5 N		86	41	22.3 W		51.6	17.7	467.7625	65.28	-114.32	-16.5	-65.54	-115.80	-2.00	-54.89						
WNVJ362	2	35	29	53.3 N		86	4	23 W		101.1	134.8	466.1000	66.18	-109.42	-16.5	-59.74	-121.61	-2.00	-54.93						
WPRX899	2	35	34	6.8 N		86	27	40.3 W		73.3	150.1	467.2250	65.87	-111.93	-16.5	-62.56	-118.84	-2.00	-54.96						
WNAZ388	5	35	29	22.7 N		86	25	28.9 W		82.5	151.1	465.4000	65.84	-110.89	-16.5	-61.55	-119.84	-2.00	-54.98						
WNPK819	3	36	0	49.2 N		86	34	59 W		29.1	119.0	467.4750	66.32	-120.43	-16.5	-70.61	-110.82	-2.00	-54.99						
WQEK235	6	36	34	0.2 N		87	1	30 W		49.4	343.3	465.2500	61.75	-111.27	-16.5	-66.03	-115.38	-2.00	-55.00						
WIRAN907	2	35	51	39.9 N		86	25	30.7 W		50.4	128.0	467.3750	66.24	-115.62	-16.5	-65.88	-115.59	-2.00	-55.03						
WRFJ749	2	35	38	34.1 N		87	3	24.7 W		57.9	197.3	466.9875	61.75	-109.99	-16.5	-64.75	-116.79	-2.00	-55.10						
WQRX643	1	36	46	58.6 N		86	59	55.6 W		72.2	350.6	466.3000	62.75	-109.13	-16.5	-62.88	-118.69	-2.00	-55.15						
WNAZ388	5	35	29	22.7 N		86	25	28.9 W		82.5	151.1	465.3250	65.84	-111.08	-16.5	-61.74	-119.83	-2.00	-55.17						
WQAZ704	3	36	3	26.9 N		87	23	3.5 W		47.3	261.1	468.1500	49.59	-99.67	-16.5	-66.58	-115.05	-2.00	-55.17						
WQWR262	2	35	29	10.2 N		86	28	14.9 W		80.9	153.8	467.1375	65.77	-111.19	-16.5	-61.92	-119.70	-2.00	-55.18						
WQZ5672	3	35	56	12.7 N		86	48	41.5 W		23.1	167.9	467.4875	65.03	-121.37	-16.5	-72.86	-108.82	-2.00	-55.23						
WQRX643	1	36	46	58.6 N		86	59	55.6 W		72.2	350.6	466.2250	62.75	-109.24	-16.5	-62.99	-118.69	-2.00	-55.26						
KIF409	7	35	35	31.6 N		87	3	35.4 W		63.4	196.1	466.0250	61.89	-109.53	-16.5	-64.14	-117.56	-2.00	-55.28						
WQCV857	1	35	49	22 N		86	21	21 W		5.8	127.5	467.3375	66.25	-114.67	-16.5	-64.91	-116.81	-2.00	-55.28						
WQCI757	1	36	46	39 N		86	34	12.1 W		75.4	20.4	467.1875	65.47	-111.63	-16.5	-62.64	-119.09	-2.00	-55.29						
WQRX643	1	36	46	58.6 N		86	59	55.6 W		72.2	350.6	466.2000	62.75	-109.27	-16.5	-63.02	-118.69	-2.00	-55.30						
WQEE781	9	35	29	24 N		87	1	34 W		73.7	191.4	466.4000	62.61	-108.99	-16.5	-62.87	-118.87	-2.00	-55.32						
WRKC580	2	35	37	20.6 N		87	3	59.8 W		60.3	197.5	466.9500	61.75	-109.92	-16.5	-64.67	-117.14	-2.00	-55.37						
WRFN221	50	36	2	46.6 N		86	24	25.7 W		42.6	104.2	467.4375	66.42	-117.63	-16.5	-67.72	-114.13	-2.00	-55.41						
WQRJ939	2	35	36	57.4 N		87	6	2.5 W		62	200.0	466.1750	61.30	-109.31	-16.5	-64.51	-117.37	-2.00	-55.46						
WQFA648	1	35	35	47.8 N		87	3	22.6 W		62.8	195.9	466.9625	62.04	-109.46	-16.5	-64.41	-117.49	-2.00	-55.46						
WQAR408	2	35	36	28.8 N		87	3	58.8 W		61.8	197.0	466.9250	61.75	-109.86	-16.5	-64.62	-117.35	-2.00	-55.54						
WQTT449	3	35	44	33.8 N		86	57	26.2 W		44.9	190.6	467.7750	62.75	-113.68	-16.5	-67.43	-114.60	-2.00	-55.58						
WPLS46	2	35	47	0 N		87	4	14 W		43.8	205.0	465.1500	60.36	-111.53	-16.5	-67.68	-114.33	-2.00	-55.61						
WNLY257	4	35	29	53.7 N		86	28	25 W		79.6	153.6	465.0500	65.77	-111.79	-16.5	-62.52	-119.52	-2.00	-55.64						
WQCG225	5	36	44	46 N		86	11	32 W		90.3	41.6	465.3313	66.10	-111.06	-16.5	-61.46	-120.62	-2.00	-55.67						
WQCI460	4	35	57	50 N		86	29	25.3 W		90.5	120.1	467.4500	66.30	-118.57	-16.5	-68.76	-113.39	-2.00	-55.71						
WQAZ704	3	36	4	26.9 N		87	23	3.5 W		47.3	261.1	468.1250	49.59	-100.27	-16.5	-67.18	-115.05	-2.00	-55.78						
WQW937	3	35	54	2.8 N		86	52	22.7 W		26.6	181.4	467.4625	63.82	-119.50	-16.5	-72.18	-110.04	-2.00	-55.78						
WQCI757	1	36	46	39 N		86	34	12.1 W		75.4	20.4	467.2375	65.47	-112.11	-16.5	-63.14	-119.09	-2.00	-55.79						
WQVG360	1	35	50	4.4 N		86	24	53.6 W		53	129.9	467.3875	66.23	-115.94	-16.5	-66.21	-116.03	-2.00	-55.79						
WRIW660	1	35	30	31.3 N		86	29	38.9 W		77.8	154.4	467.2375	65.73	-112.13	-16.5	-62.89	-119.36	-2.00	-55.80						
WQHE537	32	35	44	48 N		86	56	8 W		44.2	188.2	467.7625	62.99	-114.32	-16.5	-67.83	-114.46	-2.00	-55.84						
WQXR435	1	36	18	27.4 N		86	37	18 W		28.7	49.6	467.4875	66.21	-121.37	-16.5	-71.65	-110.70	-2.00	-55.91						
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	467.4250	66.27	-116.90	-16.5	-67.12	-115.24	-2.00	-55.92						
WROP517	1	35	29	33 N		86	26	14 W		81.7	151.7	465.0000	65.84	-111.92	-16.5	-62.58	-119.74	-2.00	-55.93						
WKY530	7	35	35	31.6 N		87	3	35.4 W		63.4	196.1	465.6438	61.89	-110.25	-16.5	-64.86	-117.55	-2.00	-56.01						
KUL720	4	35	37	5.3 N		87	2	39 W		60.2	195.5	465.4000	62.04	-110.89	-16.5	-65.35	-117.10	-2.00	-56.04						
WQWK312	2	35	37	5.3 N		87	2	39 W		60.2	195.5	465.4000	62.04	-110.89	-16.5	-65.35	-117.10	-2.00	-56.04						
WPLT529	1	35	29	11.3 N		86	24	33 W		83.5	150.4	467.2250	65.87	-111.93	-16.5	-62.56	-119.97	-2.00	-56.09						
WQWQ557	1	36	19	45.1 N		87	2	45.4 W		26.5	322.4	467.2875	57.35	-113.39	-16.5	-72.54	-110.01	-2.00	-56.10						
WQWK312	6	35	35	31.6 N		87	3	35.4 W		63.4	196.1	465.6000	61.89	-110.37	-16.5	-64.98	-117.55	-2.00	-56.12						
WQWK312	2	35	37	5.3 N		87	2	39 W		60.2	195.5	465.3600	62.04	-111.02	-16.5	-65.48	-117.10	-2.00	-56.17						
WQZ5672																									

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED													
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR frequency (dbm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)									
WQOX539	5	35	33	21.2 N		87	3	14 W		67.1	194.7	465.0375	62.18	-111.82	-16.5	-66.15	-118.03	-2.00	-57.78														
WRRAW820	2	35	56	33.8 N		86	39	49.3 W		28.5	140.5	467.5125	66.09	-123.23	-16.5	-73.64	-110.64	-2.00	-57.84														
WPLT529	1	35	29	11.3 N		86	24	33 W		83.5	150.4	467.3000	65.87	-113.71	-16.5	-64.34	-119.98	-2.00	-57.87														
WQXD717	1	36	34	15.7 N		87	14	16.8 W		58.3	325.2	466.6000	58.13	-109.19	-16.5	-67.56	-116.84	-2.00	-57.97														
WQWX391	2	36	23	31 N		87	39	24 W		76.4	291.7	468.2125	49.38	-98.17	-16.5	-65.28	-119.22	-2.00	-58.05														
WRMG479	1	36	45	25.2 N		86	33	51.7 W		33.0	171.9	467.3375	65.53	-114.67	-16.5	-65.64	-118.87	-2.00	-58.07														
WQTK893	1	36	36	5 N		86	31	32 W		30.6	326.5	467.4250	65.87	-116.90	-16.5	-67.53	-117.03	-2.00	-58.12														
WRP1319	5	36	42	21.3 N		87	10	19 W		68.5	336.5	465.6063	60.55	-110.35	-16.5	-66.31	-118.22	-2.00	-58.12														
WRMU493	2	36	37	55.5 N		87	15	1.3 W		64.5	327.9	466.3500	58.61	-109.06	-16.5	-66.94	-117.72	-2.00	-58.24														
WRDS994	1	36	5	44.1 N		86	20	7.2 W		48	95.9	467.4625	59.53	-119.50	-16.5	-69.53	-115.17	-2.00	-58.25														
WRHS273	1	36	43	10.6 N		87	15	12.5 W		73	331.8	466.4875	59.53	-108.95	-16.5	-65.92	-118.79	-2.00	-58.29														
WRNS820	1	35	54	42.3 N		86	49	31.2 W		25.7	171.9	467.5125	64.70	-123.23	-16.5	-75.09	-109.74	-2.00	-58.33														
WQFX929	12	36	37	14.1 N		87	15	42.5 W		64	326.5	466.4000	58.37	-108.99	-16.5	-67.11	-117.65	-2.00	-58.33														
WQAZ704	3	36	4	26.9 N		87	23	3.5 W		47.3	261.1	468.0250	49.59	-102.88	-16.5	-69.79	-115.05	-2.00	-58.39														
WRBR271	2	36	37	9.3 N		87	15	42.9 W		63.9	326.4	466.5438	58.37	-109.07	-16.5	-67.20	-117.64	-2.00	-58.41														
WPQA892	2	36	48	57.2 N		87	7	40 W		78.5	342.7	467.0625	61.60	-110.55	-16.5	-65.45	-119.43	-2.00	-58.45														
WRMG912	3	35	50	13 N		86	4	23 W		79	115.1	467.3625	66.35	-115.30	-16.5	-65.46	-119.50	-2.00	-58.51														
WRDH404	1	36	11	47.7 N		86	19	14.5 W		49.4	82.6	467.4625	66.44	-119.50	-16.5	-69.56	-115.42	-2.00	-58.53														
WQHE537	12	36	34	5.2 N		87	17	54 W		62.4	321.8	467.8750	57.08	-108.10	-16.5	-67.53	-117.46	-2.00	-58.53														
WQOZ040	1	36	3	47.6 N		86	26	1.4 W		39.8	102.4	467.4875	66.43	-121.37	-16.5	-71.44	-113.54	-2.00	-58.54														
WQXD717	1	36	34	15.7 N		87	14	16.8 W		58.3	325.2	466.8750	58.13	-109.76	-16.5	-68.13	-116.85	-2.00	-58.54														
WQUN476	2	36	36	14.4 N		87	15	37.5 W		62.4	325.6	466.2500	58.13	-109.20	-16.5	-67.57	-117.43	-2.00	-58.57														
WRP1319	5	36	42	21.3 N		87	10	19 W		68.5	336.5	465.6063	60.55	-110.35	-16.5	-66.31	-118.22	-2.00	-58.73														
WQHE537	36	35	32	3 N		86	13	35 W		88.7	139.3	467.7625	66.10	-114.32	-16.5	-64.72	-120.51	-2.00	-58.78														
WRQV268	2	36	33	44.7 N		87	14	19.8 W		57.5	324.6	466.9250	57.88	-109.86	-16.5	-68.49	-116.73	-2.00	-58.78														
WQIB922	1	35	42	4.2 N		86	58	49 W		48.7	192.2	467.3875	62.47	-115.94	-16.5	-69.98	-115.29	-2.00	-58.83														
WRPC813	2	36	34	58.7 N		87	15	56.6 W		60.8	324.0	466.7625	57.88	-109.53	-16.5	-68.15	-117.21	-2.00	-58.82														
WQFX929	12	36	37	14.1 N		87	15	42.5 W		64	326.5	466.8000	58.37	-109.60	-16.5	-67.73	-117.66	-2.00	-58.95														
WQO757	1	36	46	39 N		86	34	12.1 W		75.4	20.4	467.3625	65.47	-115.30	-16.5	-66.33	-119.09	-2.00	-58.98														
WRUN723	9	35	56	53.4 N		87	8	26.4 W		32.7	229.2	465.1750	54.38	-111.47	-16.5	-73.59	-111.79	-2.00	-58.98														
WRUV660	1	35	30	31.3 N		86	29	38.9 W		77.8	154.4	467.3625	65.73	-115.30	-16.5	-66.07	-119.36	-2.00	-58.99														
WRD0601	2	36	37	30.9 N		87	15	24.4 W		64.2	327.1	466.9375	58.61	-109.89	-16.5	-67.78	-117.69	-2.00	-59.03														
WRUN424	8	35	57	3.4 N		87	8	16.3 W		32.3	229.3	465.1125	54.38	-111.63	-16.5	-73.75	-111.69	-2.00	-59.03														
WRPY052	6	36	30	12.2 N		87	15	33 W		53.5	318.9	466.5875	56.29	-109.16	-16.5	-69.37	-116.10	-2.00	-59.04														
WQBY325	5	36	16	32.4 N		87	7	5.3 W		27.2	303.6	465.6250	51.53	-110.30	-16.5	-75.27	-110.20	-2.00	-59.06														
WQK0440	2	35	47	58.4 N		86	23	32.7 W		57.1	131.6	467.4500	66.21	-118.57	-16.5	-68.86	-116.68	-2.00	-59.09														
WQBY325	5	36	16	32.4 N		87	7	5.3 W		27.2	303.6	465.6125	51.53	-110.34	-16.5	-75.30	-110.20	-2.00	-59.09														
WRBR271	2	36	37	9.3 N		87	15	42.9 W		63.9	326.4	466.8813	58.37	-109.77	-16.5	-67.90	-117.64	-2.00	-59.11														
WRMG610	1	36	30	14.7 N		87	15	28.6 W		53.5	319.1	466.7625	56.55	-109.53	-16.5	-69.48	-116.10	-2.00	-59.14														
WPLT529	1	35	29	11.3 N		86	24	33 W		83.5	150.4	467.3500	65.87	-114.98	-16.5	-65.61	-119.98	-2.00	-59.15														
WQAZ704	3	36	4	26.9 N		87	23	3.5 W		47.3	261.1	468.0000	49.59	-103.67	-16.5	-70.58	-115.05	-2.00	-59.17														
WRQJ567	2	36	48	48.2 N		87	6	42 W		77.8	343.7	467.1750	61.75	-111.51	-16.5	-66.26	-119.36	-2.00	-59.18														
WQBY325	5	36	16	32.4 N		87	7	5.3 W		27.2	303.6	465.5750	51.53	-110.43	-16.5	-75.40	-110.20	-2.00	-59.19														
WQIT508	2	36	29	55.2 N		86	52	11.7 W		39.7	359.4	467.4625	63.82	-119.50	-16.5	-72.18	-113.52	-2.00	-59.26														
WQVM366	1	36	3	5.9 N		86	23	40.7 W		43.5	103.1	467.4875	66.42	-121.37	-16.5	-71.44	-114.32	-2.00	-59.31														
WRRCM610	1	36	30	14.7 N		87	15	28.6 W		53.5	319.1	466.8500	56.55	-109.71	-16.5	-69.66	-116.10	-2.00	-59.33														
WRP1319	5	36	42	21.3 N		87	10	19 W		68.5	336.5	465.0688	60.55	-111.74	-16.5	-67.70	-118.21	-2.00	-59.51														
KIP690	3	35	32	19 N		87	13	10 W		74.1	205.6	465.4000	60.36	-110.89	-16.5	-67.03	-118.90	-2.00	-59.52														
WQO757	1	36	46	39 N		86	34	12.1 W		75.4	20.4	467.3875	65.47	-115.94	-16.5	-66.97	-119.09	-2.00	-59.62														
WQUN476	2	36	36	14.4 N		87	15	37.5 W		62.4	325.6	467.0375	58.13	-110.34	-16.5	-68.71	-11																

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED		LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LMR for LM=11.2 kHz (dB)	Worst case Power on LMR Frequency (dBm)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)							
WNPP234	5	36	30	34.2 N		87	21	5 W		59.8	313.4	467.0500	54.96	-110.45	-16.5	-71.99	-117.07	-2.00	-62.62							
WPM4435	2	36	32	1.2 N		87	25	44 W		66.8	311.0	466.4750	54.38	-108.93	-16.5	-71.05	-118.02	-2.00	-62.64							
WPNL352	9	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.3906	53.08	-109.00	-16.5	-72.42	-116.66	-2.00	-62.65							
WPNL352	9	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.3875	53.08	-109.00	-16.5	-72.42	-116.66	-2.00	-62.65							
WPNL352	5	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.5125	53.08	-109.00	-16.5	-72.42	-116.66	-2.00	-62.65							
WPNL352	9	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.3844	53.08	-109.01	-16.5	-72.43	-116.66	-2.00	-62.66							
WQFW615	7	36	6	26.8 N		87	12	59.8 W		31.8	263.4	465.4500	49.72	-110.76	-16.5	-77.54	-111.56	-2.00	-62.69							
WQOE521	1	36	28	2 N		86	28	37 W		50.3	43.7	467.5125	66.14	-123.23	-16.5	-73.60	-115.58	-2.00	-62.73							
WPLT529	1	35	29	11.3 N		86	24	33 W		83.5	150.4	467.4500	65.87	-118.57	-16.5	-69.19	-119.98	-2.00	-62.73							
WPNL352	9	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.3250	53.08	-109.09	-16.5	-72.51	-116.66	-2.00	-62.74							
WVRN603	1	36	44	42.5 N		86	34	5.8 W		72.2	21.5	467.4625	65.53	-119.50	-16.5	-70.47	-118.72	-2.00	-62.74							
WNAV319	3	36	33	38.2 N		87	23	7 W		65.9	315.2	465.6375	55.50	-110.27	-16.5	-71.27	-117.89	-2.00	-62.75							
WQPB475	3	36	27	9.2 N		87	22	16 W		57.1	307.6	466.5625	53.08	-109.11	-16.5	-72.53	-116.66	-2.00	-62.76							
WQVF591	2	35	31	36.3 N		87	14	30 W		76.1	206.5	467.3000	60.15	-113.71	-16.5	-70.06	-119.17	-2.00	-62.79							
WPNL352	5	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.6125	53.08	-109.21	-16.5	-72.63	-116.66	-2.00	-62.86							
WNAV319	3	36	33	38.2 N		87	23	7 W		65.9	315.2	465.5875	55.50	-110.40	-16.5	-71.40	-117.89	-2.00	-62.88							
WQOS638	1	35	31	37.2 N		86	24	18.1 W		53.2	127.0	467.5125	66.25	-123.23	-16.5	-73.48	-115.87	-2.00	-62.90							
WQOS916	2	36	31	48.2 N		87	21	16 W		61.6	311.8	465.4500	55.23	-110.76	-16.5	-72.02	-117.30	-2.00	-62.92							
WPM4435	2	36	32	1.2 N		87	25	44 W		66.8	311.0	466.2250	54.38	-109.24	-16.5	-71.36	-118.02	-2.00	-62.95							
WNPV397	10	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.1250	53.08	-109.38	-16.5	-72.80	-116.65	-2.00	-63.03							
WNPP234	5	36	30	34.2 N		87	21	5 W		59.8	313.4	467.1000	54.96	-110.87	-16.5	-72.41	-117.07	-2.00	-63.05							
WPNL352	5	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.7125	53.08	-109.42	-16.5	-72.84	-116.66	-2.00	-63.07							
WNPV397	10	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.7750	53.08	-109.55	-16.5	-72.97	-116.66	-2.00	-63.20							
WRUJ41	4	36	32	40 N		87	21	53.8 W		63.4	315.2	467.1250	55.50	-111.08	-16.5	-72.08	-117.58	-2.00	-63.23							
WQLH735	1	36	36	57.5 N		87	26	51.5 W		74.2	315.6	466.8625	55.50	-109.73	-16.5	-70.74	-118.94	-2.00	-63.24							
WQPB475	3	36	27	9.2 N		87	22	16 W		57.1	307.6	466.8125	53.08	-109.63	-16.5	-73.05	-116.67	-2.00	-63.28							
WNPV397	10	36	27	8.7 N		87	22	16.4 W		57.1	307.5	466.8250	53.08	-109.66	-16.5	-73.07	-116.67	-2.00	-63.31							
WRUJ58	1	36	31	37.2 N		87	21	30.5 W		61.6	311.3	465.2875	55.23	-111.18	-16.5	-72.44	-117.30	-2.00	-63.34							
WQZD503	1	35	45	10.1 N		86	58	5 W		44	192.1	467.4875	62.47	-121.37	-16.5	-75.40	-114.41	-2.00	-63.37							
WQZH453	3	36	32	3.3 N		87	20	23.9 W		61	316.0	467.2125	55.76	-111.83	-16.5	-72.57	-117.25	-2.00	-63.38							
WPSN974	1	36	40	1 N		87	27	24 W		78.9	318.1	467.0125	56.29	-110.13	-16.5	-70.34	-119.48	-2.00	-63.38							
WNUI681	5	35	44	13.7 N		87	22	22.8 W		64.1	225.7	465.3000	55.50	-111.15	-16.5	-72.15	-117.64	-2.00	-63.38							
WPPW981	5	36	44	8.8 N		87	28	40.5 W		85.9	320.6	466.9500	56.79	-109.92	-16.5	-69.62	-120.22	-2.00	-63.40							
WPSG835	10	36	31	32.6 N		87	21	33.5 W		61.6	314.2	465.2400	55.23	-111.30	-16.5	-72.57	-117.30	-2.00	-63.46							
WPSG835	10	36	31	32.6 N		87	21	33.5 W		61.6	314.2	465.2375	55.23	-111.31	-16.5	-72.57	-117.30	-2.00	-63.47							
WPSG835	10	36	31	32.6 N		87	21	33.5 W		61.6	314.2	465.2344	55.23	-111.31	-16.5	-72.58	-117.30	-2.00	-63.47							
WRUJ343	1	35	35	49.9 N		87	4	20.7 W		63.1	197.2	467.4375	61.75	-117.63	-16.5	-72.39	-117.55	-2.00	-63.49							
WQLH735	6	36	40	53.2 N		87	29	20.2 W		82	317.3	466.8625	56.03	-109.73	-16.5	-70.20	-119.81	-2.00	-63.58							
WPM4435	2	36	32	1.2 N		87	25	44 W		66.8	311.0	465.7750	54.38	-109.91	-16.5	-72.03	-118.01	-2.00	-63.63							
WQLH735	4	36	40	0.4 N		87	29	17.7 W		80.8	316.6	466.8625	55.76	-109.73	-16.5	-70.48	-119.68	-2.00	-63.73							
WQZC684	2	36	35	4.2 N		87	17	37 W		62.4	322.3	467.3000	57.35	-113.71	-16.5	-72.86	-117.45	-2.00	-63.86							
WQLH735	5	36	40	15.4 N		87	30	24.2 W		82.3	316.0	466.8625	55.76	-109.73	-16.5	-70.48	-119.84	-2.00	-63.89							
WRUJ604	2	36	31	46 N		87	21	35.1 W		61.9	314.5	467.2000	55.23	-111.72	-16.5	-72.99	-117.37	-2.00	-63.92							
WQVF591	2	35	31	36.3 N		87	14	30 W		76.1	206.5	467.3500	60.15	-114.98	-16.5	-71.34	-119.17	-2.00	-64.07							
WQRH533	1	36	33	46 N		87	2	47 W		19	301.5	467.4375	50.73	-117.63	-16.5	-83.40	-107.12	-2.00	-64.08							
WRCR421	1	35	46	10.4 N		86	55	34.3 W		41.6	152.5	467.5125	63.11	-123.23	-16.5	-76.62	-113.93	-2.00	-64.10							
WRLB661	2	36	2	57 N		87	20	51 W		44.6	256.9	466.5375	49.41	-109.06	-16.5	-76.15	-114.51	-2.00	-64.23							
WQLH735	3	36	34	27.9 N		87	28	57.1 W		73.4	311.3	466.8625	54.38	-109.73	-16.5	-71.85	-118.85	-2.00	-64.27							
WQFC472	2	36	14	57.1 N		87	17	39.8 W		40.4	287.5	466.9625	49.38	-109.94	-16.5	-77.07	-113.66	-2.00	-64.29							
WRRH271	2	36	37	9.3 N		87	15	42.9 W		63.9	326.4	467.3500	58.37	-114.98	-16.5	-73.11	-117.65	-2.00	-64.32							
WQXD717	1	36	34	15.7 N		87	16	58.3 W		58.3	315.2	467.3750	54.38	-115.62	-16.5	-73.99	-116.86	-2.00	-64.41							
WQDP576	2	36	41	41 N		87	26	38.5 W		80.4	320.1	465.1250	56.79	-111.60	-16.5	-71.31	-119.61	-2.00	-64.51							
WPFZ205	8	36	4	13.2 N		87	23	23 W		47.8	260.7	466.4500	49.55	-108.91	-16.5	-75.86	-115.11	-2.00	-64.55							
WQXD478	1	36	32	16.2 N		87	21	14.7 W		62.2	315.4	467.2625	55.50	-112.75	-16.5	-73.75	-117.42	-2.00	-64.73							
WQHE537	12	36	34	52 N		87	17	54 W		62.4	321.8	467.7625	57.08	-114.32	-16.5	-73.74	-117.45	-2.00	-64.75							
WPTM560	4	36	32	41 N		87	30	3 W		72.5	308.5	466.6875	53.43	-1												

Appendix A: WIIW-LD Ch14 Nashville
LMR Interference Protection Calculations

Interference criteria (typical LM receiver sensitivity): 17.0 dBu

																				SORTED				
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	LMR Frequency (MHz)	WIIW ERP H+V (dBm)	Transmitter + Filter Net Attenuation (dB)	DTV Coupling into LM for LM=11.2 dB	Worst case Power on LMR Frequency (dBm)	Free Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBd)	LM Bandwidth (kHz)	Coupling Adjustment (dB)	Depression Angle from WIIW (deg)	WIIW Elevation Pattern (dB)	Field Strength (dBu)
WRKQ705	1	36	42	47.6 N		86	34	25.1 W		68.7	22.2	467.5125	65.57	-123.23	-16.5	-74.16	-118.28	-2.00	-66.00					
WQTT449	2	35	44	33.8 N		86	57	26.2 W		44.9	190.6	467.5250	62.75	-124.16	-16.5	-77.91	-114.59	-2.00	-66.06					
WPOC545	1	36	48	9.2 N		87	23	4 W		86.9	327.9	467.3250	58.61	-114.35	-16.5	-72.23	-120.32	-2.00	-66.11					
WPMMA35	2	36	32	1.2 N		87	25	44 W		66.8	311.0	467.2500	54.38	-112.43	-16.5	-74.55	-118.04	-2.00	-66.15					
WNLO538	5	36	10	56.3 N		87	20	14.2 W		42.7	276.4	465.0750	49.76	-111.73	-16.5	-78.47	-114.11	-2.00	-66.18					
WNLO538	10	36	10	59.2 N		87	20	20 W		42.8	276.5	465.0900	49.76	-111.79	-16.5	-78.53	-114.13	-2.00	-66.26					
WQFC472	2	36	14	57.1 N		87	17	39.8 W		40.4	287.5	467.2250	49.38	-111.93	-16.5	-79.06	-113.67	-2.00	-66.28					
WQZC684	3	36	35	4.2 N		87	17	37 W		62.4	322.3	467.4000	57.35	-116.26	-16.5	-75.41	-117.45	-2.00	-66.41					
WPYD562	4	36	32	41 N		87	30	3 W		72.5	308.5	467.1375	53.42	-111.19	-16.5	-74.27	-118.75	-2.00	-66.57					
WNKP418	3	36	5	48.7 N		87	25	3.5 W		49.9	264.5	465.4000	49.76	-110.89	-16.5	-77.63	-115.47	-2.00	-66.69					
WRNA496	1	35	56	3.2 N		87	19	23 W		46.7	241.9	465.0000	50.22	-111.92	-16.5	-78.20	-114.89	-2.00	-66.69					
WQW642	1	36	2	21 N		87	19	32 W		42.9	254.8	467.2125	49.38	-111.83	-16.5	-78.95	-114.19	-2.00	-66.70					
WPOC545	1	36	48	9.2 N		87	23	4 W		86.9	327.9	467.3500	58.61	-114.98	-16.5	-72.87	-120.32	-2.00	-66.75					
WQFW615	4	36	5	50.8 N		87	25	57.4 W		51.3	264.8	465.4625	49.76	-110.72	-16.5	-77.47	-115.71	-2.00	-66.77					
WQWP550	6	36	43	55 N		87	28	2 W		84.9	320.9	467.2875	56.79	-113.39	-16.5	-73.10	-120.12	-2.00	-66.78					
WQFW615	4	36	5	50.8 N		87	25	57.4 W		51.3	264.8	465.4375	49.76	-110.79	-16.5	-77.53	-115.71	-2.00	-66.83					
WQX835	1	36	0	48.9 N		87	20	9.1 W		44.7	251.6	467.1875	49.34	-111.61	-16.5	-78.77	-114.55	-2.00	-66.88					
WRTZ280	8	36	34	47.5 N		87	15	12.8 W		59.9	324.7	467.4375	57.88	-117.63	-16.5	-76.26	-117.09	-2.00	-66.90					
WNLO538	3	36	5	52.2 N		87	25	54 W		51.2	264.8	465.4000	49.76	-110.89	-16.5	-77.63	-115.69	-2.00	-66.91					
WQFW615	4	36	5	50.8 N		87	25	57.4 W		51.3	264.8	465.1875	49.76	-111.44	-16.5	-78.18	-115.70	-2.00	-67.48					
WNKP418	3	36	5	48.7 N		87	25	3.5 W		49.9	264.5	465.0500	49.76	-111.79	-16.5	-78.53	-115.46	-2.00	-67.60					
WQV591	2	35	31	36.3 N		87	14	30 W		76.1	206.5	467.4500	60.15	-118.57	-16.5	-74.92	-119.17	-2.00	-67.65					
WQST213	1	36	31	31.4 N		87	16	44.3 W		56.6	319.2	467.4375	56.55	-117.63	-16.5	-77.58	-116.60	-2.00	-67.74					
WQBE960	3	36	15	24 N		87	37	38 W		69.7	280.9	466.4625	49.55	-108.90	-16.5	-75.85	-118.39	-2.00	-67.81					
WNLO538	3	36	5	52.2 N		87	25	54 W		51.2	264.8	465.0500	49.76	-111.79	-16.5	-78.53	-115.69	-2.00	-67.82					
WQFW615	9	36	13	35.6 N		87	26	25.8 W		52.6	280.6	465.1750	49.55	-111.47	-16.5	-78.42	-115.92	-2.00	-67.94					
WQWP550	6	36	43	55 N		87	28	2 W		84.9	320.9	467.3375	56.79	-114.67	-16.5	-74.37	-120.12	-2.00	-68.05					
WNWU891	3	36	19	56.2 N		87	25	43 W		54.9	293.0	467.1500	49.57	-111.30	-16.5	-78.22	-116.33	-2.00	-68.12					
WQF421	1	36	31	15.6 N		87	20	43.8 W		60.3	314.7	467.4000	55.23	-116.26	-16.5	-77.53	-117.15	-2.00	-68.23					
WPOC545	1	36	48	9.2 N		87	23	4 W		86.9	327.9	467.4250	58.61	-116.90	-16.5	-74.79	-120.32	-2.00	-68.67					
WQBE960	3	36	15	24 N		87	37	38 W		69.7	280.9	466.9875	49.55	-109.99	-16.5	-76.94	-118.40	-2.00	-68.91					
WQFW615	13	36	15	0 N		87	30	45 W		59.4	282.0	465.1750	49.48	-111.47	-16.5	-78.49	-116.98	-2.00	-69.06					
WQWP550	6	36	43	55 N		87	28	2 W		84.9	320.9	467.3875	56.79	-115.94	-16.5	-75.65	-120.12	-2.00	-69.33					
WRG3308	16	36	16	14.2 N		87	4	9 W		23.2	308.5	467.5250	53.42	-124.16	-16.5	-87.24	-108.86	-2.00	-69.65					
WRHY338	2	36	20	38.9 N		87	26	16.5 W		77.2	318.6	467.4250	56.29	-116.90	-16.5	-77.11	-119.30	-2.00	-69.96					
WRBL661	2	36	2	57 N		87	20	51 W		44.6	256.9	467.3500	49.41	-114.98	-16.5	-82.08	-114.53	-2.00	-70.16					
WQPT427	7	35	49	39.2 N		87	34	2 W		72.2	241.3	465.0875	50.22	-111.70	-16.5	-77.98	-118.67	-2.00	-70.25					
WQVH507	2	36	6	21.7 N		87	38	9.5 W		69.5	267.0	465.0625	49.91	-111.76	-16.5	-78.35	-118.34	-2.00	-70.29					
WQF421	1	36	31	15.6 N		87	20	43.8 W		60.3	314.7	467.4500	55.23	-118.57	-16.5	-79.83	-117.15	-2.00	-70.54					
WQX835	1	36	0	48.9 N		87	20	9.1 W		44.7	251.6	467.3625	49.34	-115.30	-16.5	-82.46	-114.55	-2.00	-70.57					
WQDU754	7	36	25	52.1 N		87	38	28.6 W		76.8	295.1	465.3313	49.78	-111.06	-16.5	-77.78	-119.21	-2.00	-70.59					
WQDU754	7	36	25	52.1 N		87	38	28.6 W		76.8	295.1	465.2656	49.78	-111.23	-16.5	-77.95	-119.21	-2.00	-70.76					
WQDU754	7	36	25	52.1 N		87	38	28.6 W		76.8	295.1	465.2625	49.78	-111.24	-16.5	-77.96	-119.21	-2.00	-70.77					
WQDU754	7	36	25	52.1 N		87	38	28.6 W		76.8	295.1	465.2594	49.78	-111.25	-16.5	-77.97	-119.21	-2.00	-70.77					
WQDU754	7	36	25	52.1 N		87	38	28.6 W		76.8	295.1	465.1188	49.78	-111.61	-16.5	-78.33	-119.21	-2.00	-71.14					
WQDU754	25	36	25	52.1 N		87	38	28.6 W		76.8	295.1	465.0688	49.78	-111.74	-16.5	-78.46	-119.21	-2.00	-71.27					
WRNM229	2	36	23	53.6 N		87	30	15.4 W		64.1	296.7	467.3250	49.85	-114.35	-16.5	-81.00	-117.68	-2.00	-72.23					
WPSN974	1	36	40	1 N		87	27	24 W		78.9	318.1	467.4625	56.29	-119.50	-16.5	-79.71	-119.49	-2.00	-72.75					
WRBR271	2	36	37	9.3 N		87	15	42.9 W		63.9	326.4	467.5375	58.37	-125.10	-16.5	-83.22	-117.66	-2.00	-74.43					
WQZM453	3	36	32	3.3 N		87	20	23.9 W		61	316.0	467.5125	55.76	-123.23	-16.5	-83.97	-117.25	-2.00	-74.78					
WRMR710	1	36	49	3.1 N		87	25	16.6 W		90.1	326.7	467.5125	58.37	-123.23	-16.5	-81.36	-120.64	-2.00	-75.55					
WQYZ639	1	36	3	26.6 N		87	21	36.9 W		45.5	258.4	467.5125	49.48	-123.23	-16.5	-90.25	-114.71	-2.00	-78.51					
WQWX391	2	36	23	31 N		87	39	24 W		76.4	291.7	467.5250	49.38	-124.16	-16.5	-91.28	-119.21	-2.00	-84.04					

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQVI301	3	36	8	5	N	86	51	25.9	W	1	132.1	470.0000	66.20	-26.8	-80.00	-81.59	-2.00	-124.19
WQVI301	3	36	8	5	N	86	51	25.9	W	1	132.1	470.0000	66.20	-26.8	-80.00	-81.59	-2.00	-124.19
WQRF789	1	36	7	43	N	86	51	8	W	1.8	138.6	470.0000	66.12	-26.8	-80.00	-86.70	-2.00	-129.37
WQRF789	1	36	7	43	N	86	51	8	W	1.8	138.6	470.0000	66.12	-26.8	-80.00	-86.70	-2.00	-129.37
WRBQ360	4	36	7	43.9	N	86	50	38.7	W	2.3	124.6	470.0000	66.28	-26.8	-80.00	-88.83	-2.00	-131.35
WRCP268	1	36	7	11	N	86	51	11.4	W	2.6	154.6	470.0000	65.73	-26.8	-80.00	-89.89	-2.00	-132.96
WQVZ398	2	36	7	44.1	N	86	50	13.7	W	2.9	117.4	470.0000	66.33	-26.8	-80.00	-90.84	-2.00	-133.31
WQNR670	1	36	7	20.4	N	86	52	15.7	W	2.1	193.4	470.0000	62.33	-26.8	-80.00	-88.04	-2.00	-134.51
WQNR670	1	36	7	20.4	N	86	52	15.7	W	2.1	193.4	470.0000	62.33	-26.8	-80.00	-88.04	-2.00	-134.51
WRFU298	2	36	9	53	N	86	50	32	W	3.4	38.3	470.0000	66.05	-26.8	-80.00	-92.22	-2.00	-134.97
WRBU943	7	36	10	17.8	N	86	51	37.8	W	3.4	7.6	470.0000	64.54	-26.8	-80.00	-92.22	-2.00	-136.49
WQYS266	8	36	8	32	N	86	49	1.7	W	4.4	88.0	470.0000	66.50	-26.8	-80.00	-94.46	-2.00	-136.76
WQWA791	6	36	9	51.3	N	86	49	21.7	W	4.7	55.9	470.0000	66.27	-26.8	-80.00	-95.03	-2.00	-137.56
WQWA791	1	36	9	51.3	N	86	49	21.7	W	4.7	55.9	470.0000	66.27	-26.8	-80.00	-95.03	-2.00	-137.56
WQWA791	1	36	9	51.3	N	86	49	21.7	W	4.7	55.9	470.0000	66.27	-26.8	-80.00	-95.03	-2.00	-137.56
WQWA791	1	36	9	51.3	N	86	49	21.7	W	4.7	55.9	470.0000	66.27	-26.8	-80.00	-95.03	-2.00	-137.56
WRFU470	1	36	10	5.7	N	86	49	33.9	W	4.7	49.3	470.0000	66.21	-26.8	-80.00	-95.03	-2.00	-137.62
WQRW472	2	36	8	36.4	N	86	48	39.3	W	4.9	86.6	470.0000	66.48	-26.8	-80.00	-95.40	-2.00	-137.72
WQQA514	4	36	8	38.5	N	86	48	35.1	W	5	85.9	470.0000	66.47	-26.8	-80.00	-95.57	-2.00	-137.90
WRAC915	2	36	8	43.1	N	86	48	32.4	W	5.1	84.4	470.0000	66.46	-26.8	-80.00	-95.74	-2.00	-138.08
WRAQ869	3	36	8	45.6	N	86	48	33.5	W	5.1	83.5	470.0000	66.45	-26.8	-80.00	-95.74	-2.00	-138.09
WQGP944	1	36	9	8.2	N	86	48	38.8	W	5.1	75.5	470.0000	66.42	-26.8	-80.00	-95.74	-2.00	-138.13
WQXS203	6	36	10	48.8	N	86	51	6.8	W	4.5	15.6	470.0000	65.15	-26.8	-80.00	-94.66	-2.00	-138.31
WQXS203	6	36	10	48.8	N	86	51	6.8	W	4.5	15.6	470.0000	65.15	-26.8	-80.00	-94.66	-2.00	-138.31
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2	36	9	12.5	N	86	48	32.3	W	5.3	74.5	470.0000	66.41	-26.8	-80.00	-96.08	-2.00	-138.47
WQXF625	2																	

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED Calculated interfering signal field strength (dBu)
WQAY855	1	36	9	41	N	86	48	14	W	6	67.6	470.0000	66.36	-26.8	-80.00	-97.15	-2.00	-139.59
WRKE317	2	36	9	58.9	N	86	48	24.8	W	6	61.7	470.0000	66.32	-26.8	-80.00	-97.15	-2.00	-139.64
WRAA595	1	36	8	54.4	N	86	47	53	W	6.1	82.0	470.0000	66.44	-26.8	-80.00	-97.30	-2.00	-139.65
WRKY207	1	36	11	11.4	N	86	50	23.9	W	5.6	24.3	470.0000	65.65	-26.8	-80.00	-96.56	-2.00	-139.71
WRJZ492	2	36	9	53.8	N	86	48	15.4	W	6.1	64.0	470.0000	66.34	-26.8	-80.00	-97.30	-2.00	-139.76
WQQJ307	2	36	10	3.2	N	86	48	25	W	6.1	60.5	470.0000	66.30	-26.8	-80.00	-97.30	-2.00	-139.79
WQYC590	3	36	10	3.2	N	86	48	25	W	6.1	60.5	470.0000	66.30	-26.8	-80.00	-97.30	-2.00	-139.79
WQSY470	3	36	10	3.2	N	86	48	25	W	6.1	60.5	470.0000	66.30	-26.8	-80.00	-97.30	-2.00	-139.79
WQXR609	2	36	6	0.5	N	86	49	16.6	W	6	138.7	470.0000	66.12	-26.8	-80.00	-97.15	-2.00	-139.83
WQNU208	1	36	11	6.2	N	86	49	35.7	W	6	35.4	470.0000	65.99	-26.8	-80.00	-97.15	-2.00	-139.96
WNFV433	2	36	8	5.2	N	86	47	40	W	6.4	96.0	470.0000	66.46	-26.8	-80.00	-97.72	-2.00	-140.05
WNFV433	3	36	8	5.2	N	86	47	40	W	6.4	96.0	470.0000	66.46	-26.8	-80.00	-97.72	-2.00	-140.05
WQOB399	2	36	7	56.6	N	86	47	44	W	6.4	98.5	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WQOG229	2	36	7	56.5	N	86	47	41	W	6.4	98.4	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WQQM206	1	36	7	56.6	N	86	47	44	W	6.4	98.5	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WQOB399	2	36	7	56.6	N	86	47	44	W	6.4	98.5	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WREP474	1	36	8	57.1	N	86	47	43.9	W	6.4	81.6	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WREP474	1	36	8	57.1	N	86	47	43.9	W	6.4	81.6	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WREP474	1	36	8	57.1	N	86	47	43.9	W	6.4	81.6	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WREP474	1	36	8	57.1	N	86	47	43.9	W	6.4	81.6	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WREP474	1	36	8	57.1	N	86	47	43.9	W	6.4	81.6	470.0000	66.44	-26.8	-80.00	-97.72	-2.00	-140.07
WRHY470	1	36	9	6.3	N	86	47	35.3	W	6.6	79.4	470.0000	66.43	-26.8	-80.00	-97.98	-2.00	-140.35
WRHY470	1	36	9	6.3	N	86	47	35.3	W	6.6	79.4	470.0000	66.43	-26.8	-80.00	-97.98	-2.00	-140.35
WRHY470	1	36	9	6.3	N	86	47	35.3	W	6.6	79.4	470.0000	66.43	-26.8	-80.00	-97.98	-2.00	-140.35
WRFC809	1	36	9	6.2	N	86	47	35.2	W	6.6	79.4	470.0000	66.43	-26.8	-80.00	-97.98	-2.00	-140.35
WRMY352	2	36	9	16.6	N	86	47	38.5	W	6.6	76.6	470.0000	66.42	-26.8	-80.00	-97.98	-2.00	-140.37
WRWE360	1	36	5	35	N	86	49	32	W	6.4	145.9	470.0000	65.99	-26.8	-80.00	-97.72	-2.00	-140.52
WRWE360	1	36	5	35	N	86	49	32	W	6.4	145.9	470.0000	65.99	-26.8	-80.00	-97.72	-2.00	-140.52
WRWE360	1	36	5	35	N	86	49	32	W	6.4	145.9	470.0000	65.99	-26.8	-80.00	-97.72	-2.00	-140.52
WRWE360	1	36	5	35	N	86	49	32	W	6.4	145.9	470.0000	65.99	-26.8	-80.00	-97.72	-2.00	-140.52
WQWJ828	2	36	9	22.7	N	86	47	33.6	W	6.8	75.2	470.0000	66.42	-26.8	-80.00	-98.24	-2.00	-140.63
WQQV523	3	36	5	45.2	N	86	49	0	W	6.7	138.7	470.0000	66.12	-26.8	-80.00	-98.11	-2.00	-140.79
WQQV523	1	36	5	45.2	N	86	49	0	W	6.7	138.7	470.0000	66.12	-26.8	-80.00	-98.11	-2.00	-140.79
WQQX314	1	36	5	31.1	N	86	51	48.9	W	5.4	178.1	470.0000	64.10	-26.8	-80.00	-96.24	-2.00	-140.94
WRBS946	2	36	9	54.1	N	86	47	34.9	W	7.1	67.5	470.0000	66.36	-26.8	-80.00	-98.62	-2.00	-141.06
WQVZ577	1	36	10	43.3	N	86	52	41.3	W	4.4	345.0	470.0000	62.04	-26.8	-80.00	-94.46	-2.00	-141.22
WRAR508	1	36	6	15.4	N	86	47	57.5	W	7.2	124.3	470.0000	66.28	-26.8	-80.00	-98.74	-2.00	-141.26
WROE559	2	36	9	11.8	N	86	47	6.4	W	7.4	79.1	470.0000	66.43	-26.8	-80.00	-98.98	-2.00	-141.34
WRJV620	7	36	9	26.6	N	86	47	8.1	W	7.4	75.6	470.0000	66.42	-26.8	-80.00	-98.98	-2.00	-141.36
WRJV620	7	36	9	26.6	N	86	47	8.1	W	7.4	75.6	470.0000	66.42	-26.8	-80.00	-98.98	-2.00	-141.36
WNYK915	3	36	10	3.7	N	86	47	23.8	W	7.4	66.2	470.0000	66.35	-26.8	-80.00	-98.98	-2.00	-141.42
WNYK915	3	36	10	3.7	N	86	47	23.8	W	7.4	66.2	470.0000	66.35	-26.8	-80.00	-98.98	-2.00	-141.42
WNYK915	3	36	10	3.7	N	86	47	23.8	W	7.4	66.2	470.0000	66.35	-26.8	-80.00	-98.98	-2.00	-141.42
WRJV620	9	36	9	29.8	N	86	47	5.7	W	7.5	75.0	470.0000	66.42	-26.8	-80.00	-99.09	-2.00	-141.48
WRJV620	9	36	9	29.8	N	86	47	5.7	W	7.5	75.0	470.0000	66.42	-26.8	-80.00	-99.09	-2.00	-141.48
WNNG984	2	36	9	29.2	N	86	47	4	W	7.5	75.2	470.0000	66.42	-26.8	-80.00	-99.09	-2.00	-141.48
WQQB216	1	36	9	28.6	N	86	47	1.7	W	7.6	75.4	470.0000	66.42	-26.8	-80.00	-99.21	-2.00	-141.59
WQQB216	1	36	9	28.6	N	86	47	1.7	W	7.6	75.4	470.0000	66.42	-26.8	-80.00	-99.21	-2.00	-141.59
WQMD594	3	36	9	30.7	N	86	47	3	W	7.6	74.9	470.0000	66.41	-26.8	-80.00	-99.21	-2.00	-141.60
WQKN467	2	36	9	41.1	N	86	47	4.9	W	7.6	72.5	470.0000	66.39	-26.8	-80.00	-99.21	-2.00	-141.62
WQZA963	1	36	9	29.8	N	86	46	57.2	W	7.7	75.4	470.0000	66.42	-26.8	-80.00	-99.32	-2.00	-141.71
WQZA963	1	36	9	29.8	N	86	46	57.2	W	7.7	75.4	470.0000	66.42	-26.8	-80.00	-99.32	-2.00	-141.71
WQMM949	2	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	3	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	3	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	3	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	2	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	3	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	3	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQMM949	3	36	9	41.6	N	86	47	2	W	7.7	72.5	470.0000	66.39	-26.8	-80.00	-99.32	-2.00	-141.73
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WQYC257	4	36	9	50	N	86	47	5.4	W	7.7	70.5	470.0000	66.38	-26.8	-80.00	-99.32	-2.00	-141.74
WRAN292	2	36	9	23.5	N	86	46	51.3	W	7.8	77.0	470.0000	66.42	-26.8	-80.00	-99.43	-2.00	-141.81
WRAN292	2	36	9	23.5	N	86	46	51.3	W	7.8	77.0	470.0000	66.42	-26.8	-80.00	-99.43	-2.00	-141.81
WNYK915	1	36	10	27.2	N	86	47	28	W	7.7	60.9	470.0000	66.30	-26.8	-80.00	-99.32	-2.00	-141.82
WNYK915	1	36	10	27.2	N	86	47	28	W	7.7	60.9	470.0000	66.30	-26.8	-80.00	-99.32	-2.00	-141.82

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Sorted
																		Calculated interfering signal field strength (dBu)
WNYK915	1	36	10	27.2	N	86	47	28	W	7.7	60.9	470.0000	66.30	-26.8	-80.00	-99.32	-2.00	-141.82
WNYK915	1	36	10	27.2	N	86	47	28	W	7.7	60.9	470.0000	66.30	-26.8	-80.00	-99.32	-2.00	-141.82
WNYK915	1	36	10	27.2	N	86	47	28	W	7.7	60.9	470.0000	66.30	-26.8	-80.00	-99.32	-2.00	-141.82
WREN907	3	36	9	31	N	86	46	53	W	7.8	75.3	470.0000	66.42	-26.8	-80.00	-99.43	-2.00	-141.82
WPOA612	2	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WNAT848	2	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46	55	W	7.8	74.7	470.0000	66.41	-26.8	-80.00	-99.43	-2.00	-141.82
WPCA631	1	36	9	33.2	N	86	46											

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WREP473	1	36	7	35.4	N	86	46	36.7	W	8.1	101.3	470.0000	66.43	-26.8	-80.00	-99.76	-2.00	-142.13
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WPXE452	2	36	9	33	N	86	46	42	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WPXE452	2	36	9	33	N	86	46	42	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WPXE452	2	36	9	33	N	86	46	42	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQZ2506	2	36	9	33	N	86	46	42.6	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WPXE452	2	36	9	33	N	86	46	42	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WQXQ340	3	36	9	33	N	86	46	42.7	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WPPY461	6	36	9	32.9	N	86	46	42.6	W	8.1	75.4	470.0000	66.42	-26.8	-80.00	-99.76	-2.00	-142.15
WRJX461	2	36	9	37.7	N	86	46	45.3	W	8.1	74.2	470.0000	66.41	-26.8	-80.00	-99.76	-2.00	-142.15
WRIQ329	2	36	9	40.1	N	86	46	42.7	W	8.1	73.9	470.0000	66.40	-26.8	-80.00	-99.76	-2.00	-142.16
WRIQ329	2	36	9	40.1	N	86	46	42.7	W	8.1	73.9	470.0000	66.40	-26.8	-80.00	-99.76	-2.00	-142.16
WRIQ329	2	36	9	40.1	N	86	46	42.7	W	8.1	73.9	470.0000	66.40	-26.8	-80.00	-99.76	-2.00	-142.16
WQSI477	2	36	10	49.8	N	86	52	55.9	W	4.6	341.3	470.0000	61.45	-26.8	-80.00	-94.85	-2.00	-142.20
WPM801	1	36	7	45.2	N	86	46	32	W	8.2	99.0	470.0000	66.44	-26.8	-80.00	-99.87	-2.00	-142.23
WQRA699	2	36	9	25.9	N	86	46	36.2	W	8.2	77.1	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQVL563	2	36	9	26	N	86	46	37	W	8.2	77.1	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQRA699	2	36	9	25.9	N	86	46	36.2	W	8.2	77.1	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQRA699	2	36	9	25.9	N	86	46	36.2	W	8.2	77.1	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQTK807	2	36	9	29	N	86	46	36.6	W	8.2	76.5	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQTK807	2	36	9	29	N	86	46	36.6	W	8.2	76.5	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQTK807	2	36	9	29	N	86	46	36.6	W	8.2	76.5	470.0000	66.42	-26.8	-80.00	-99.87	-2.00	-142.25
WQVE781	1	36	9	37.9	N	86	46	41.9	W	8.2	74.4	470.0000	66.41	-26.8	-80.00	-99.87	-2.00	-142.26
WQVE781	1	36	9	37.9	N	86	46	41.9	W	8.2	74.4	470.0000	66.41	-26.8	-80.00	-99.87	-2.00	-142.26
WRFF880	3	36	9	40.4	N	86	46	42.5	W	8.2	73.8	470.0000	66.40	-26.8	-80.00	-99.87	-2.00	-142.26
WRFF880	2	36	9	40.4	N	86	46	42.5	W	8.2	73.8	470.0000	66.40	-26.8	-80.00	-99.87	-2.00	-142.26
WRFF880	3	36	9	40.4	N	86	46	42.5	W	8.2	73.8	470.0000	66.40	-26.8	-80.00	-99.87	-2.00	-142.26
WRFF880	3	36	9	40.4	N	86	46	42.5	W	8.2	73.8	470.0000	66.40	-26.8	-80.00	-99.87	-2.00	-142.26
WRFF880	3	36	9	40.4	N	86	46	42.5	W	8.2	73.8	470.0000	66.40	-26.8	-80.00	-99.87	-2.00	-142.26
WRFF880	3	36	9	40.4	N	86	46	42.5	W	8.2	73.8	470.0000	66.40	-26.8	-80.00	-99.87	-2.00	-142.26
WREA477	3	36	9	50.4	N	86	46	43.5	W	8.2	71.7	470.0000	66.39	-26.8	-80.00	-99.87	-2.00	-142.28
WRC5254	2	36	9	51.2	N	86	46	43.9	W	8.2	71.5	470.0000	66.39	-26.8	-80.00	-99.87	-2.00	-142.28
WREA477	1	36	9	50.4	N	86	46	43.5	W	8.2	71.7	470.0000	66.39	-26.8	-80.00	-99.87	-2.00	-142.28
WRBR373	1	36	9	51.1	N	86	46	46.8	W	8.2	71.4	470.0000	66.39	-26.8	-80.00	-99.87	-2.00	-142.28
WREA477	1	36	9	50.4	N	86	46	43.5	W	8.2	71.7	470.0000	66.39	-26.8	-80.00	-99.87	-2.00	-142.28
WREA477	3	36	9	50.4	N	86	46	43.5	W	8.2	71.7	470.0000	66.39	-26.8	-80.00	-99.87	-2.00	-142.28
WQXA961	2	36	9	57.1	N	86	46	46.6	W	8.2	70.1	470.0000	66.38	-26.8	-80.00	-99.87	-2.00	-142.29
WRFF376	1	36	10	21.4	N	86	46	59.3	W	8.2	64.4	470.0000	66.34	-26.8	-80.00	-99.87	-2.00	-142.33
WREJ827	2	36	9	19.8	N	86	46	32.4	W	8.3	78.5	470.0000	66.43	-26.8	-80.00	-99.97	-2.00	-142.35
WRCM798	2	36	9	22.9	N	86	46	31.1	W	8.3	77.9	470.0000	66.42	-26.8	-80.00	-99.97	-2.00	-142.35
WRCM798	2	36	9	22.9	N	86	46	31.1	W	8.3	77.9	470.0000	66.42	-26.8	-80.00	-99.97	-2.00	-142.35
WQUN946	5	36	9	30	N	86	46	33.6	W	8.3	76.4	470.0000	66.42	-26.8	-80.00	-99.97	-2.00	-142.36
WRVJ345	2	36	9	44.5	N	86	46	37.2	W	8.3	73.2	470.0000	66.40	-26.8	-80.00	-99.97	-2.00	-142.37
WQG3335	3	36	11	22.7	N	86	47	55.7	W	8.1	47.8	470.0000	66.19	-26.8	-80.00	-99.76	-2.00	-142.37
WQG3335	3	36	11	22.7	N	86	47	55.7	W	8.1	47.8	470.0000	66.19	-26.8	-80.00	-99.76	-2.00	-142.37
WQG3335	3	36	11	22.7	N	86	47	55.7	W	8.1	47.8	470.0000	66.19	-26.8	-80.00	-99.76	-2.00	-142.37
WQVX997	14	36	9	47	N	86	46	40.8	W	8.3	72.5	470.0000	66.39	-26.8	-80.00	-99.97	-2.00	-142.38
WQVX997	14	36	9	47	N	86	46	40.8	W	8.3	72.5	470.0000	66.39	-26.8	-80.00	-99.97	-2.00	-142.38
WQRW312	8	36	8	0.8	N	86	46	20.8	W	8.4	95.5	470.0000	66.47	-26.8	-80.00	-100.08	-2.00	-142.41
WRTF788	1	36	9	16.3	N	86	46	23.6	W	8.4	79.6	470.0000	66.43	-26.8	-80.00	-100.08	-2.00	-142.44
WQZN460	2	36	9	31.5	N	86	46	30.9	W	8.4	76.2	470.0000	66.42	-26.8	-80.00	-100.08	-2.00	-142.46
WRCZ766	3	36	9	39.7	N	86	46	32.2	W	8.4	74.4	470.0000	66.41	-26.8	-80.00	-100.08	-2.00	-142.47</

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQZT608	2	36	9	26.7	N	86	46	25.2	W	8.5	77.4	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WQLQ653	3	36	9	27.6	N	86	46	26.2	W	8.5	77.2	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WREL815	2	36	9	27.9	N	86	46	26	W	8.5	77.1	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WQLQ653	3	36	9	27.6	N	86	46	26.2	W	8.5	77.2	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WREL815	2	36	9	27.9	N	86	46	26	W	8.5	77.1	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WQZT608	3	36	9	26.7	N	86	46	25.2	W	8.5	77.4	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WRMT933	2	36	9	33.7	N	86	46	24.2	W	8.5	76.0	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WRMT933	2	36	9	33.7	N	86	46	24.2	W	8.5	76.0	470.0000	66.42	-26.8	-80.00	-100.18	-2.00	-142.56
WRCV864	1	36	11	37.4	N	86	48	3.4	W	8.3	44.6	470.0000	66.15	-26.8	-80.00	-99.97	-2.00	-142.63
WRKH611	8	36	9	31.4	N	86	46	22.1	W	8.6	76.5	470.0000	66.42	-26.8	-80.00	-100.28	-2.00	-142.67
WQZX951	2	36	9	33.6	N	86	46	23.7	W	8.6	76.0	470.0000	66.42	-26.8	-80.00	-100.28	-2.00	-142.67
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQVY639	1	36	9	35.2	N	86	46	18.7	W	8.7	75.9	470.0000	66.42	-26.8	-80.00	-100.38	-2.00	-142.77
WQPL818	3	36	11	55	N	86	48	16	W	8.4	40.5	470.0000	66.09	-26.8	-80.00	-100.08	-2.00	-142.79
WQPL818	3	36	11	55	N	86	48	16	W	8.4	40.5	470.0000	66.09	-26.8	-80.00	-100.08	-2.00	-142.79
WQPL818	3	36	11	55	N	86	48	16	W	8.4	40.5	470.0000	66.09	-26.8	-80.00	-100.08	-2.00	-142.79
WQPL818	3	36	11	55	N	86	48	16	W	8.4	40.5	470.0000	66.09	-26.8	-80.00	-100.08	-2.00	-142.79
WQPL818	3	36	11	55	N	86	48	16	W	8.4	40.5	470.0000	66.09	-26.8	-80.00	-100.08	-2.00	-142.79
WQPL818	3	36	11	55	N	86	48	16	W	8.4	40.5	470.0000	66.09	-26.8	-80.00	-100.08	-2.00	-142.79
WPEX272	1	36	8	40.2	N	86	46	1	W	8.9	87.3	470.0000	66.49	-26.8	-80.00	-100.58	-2.00	-142.89
WPEX272	1	36	8	40.2	N	86	46	1	W	8.9	87.3	470.0000	66.49	-26.8	-80.00	-100.58	-2.00	-142.89
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WQPL818	2	36	10	3	N	86	46	24	W	8.8	70.3	470.0000	66.38	-26.8	-80.00	-100.48	-2.00	-142.90
WRCW420	1	36	11	38.8	N	86	47	44.3	W	8.6	46.6	470.0000	66.18	-26.8	-80.00	-100.28	-2.00	-142.90
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQUM756	1	36	7	51.8	N	86	46	1.5	W	8.9	97.0	470.0000	66.45	-26.8	-80.00	-100.58	-2.00	-142.93
WQY311	2	36	9	58.4	N	86	46	17.1	W	8.9	71.5	470.0000	66.39	-26.8	-80.00	-100.58	-2.00	-142.99
WQY311	2	36	9	58.4	N	86	46	17.1	W	8.9	71.5	470.0000	66.39	-26.8	-80.00	-100.58	-2.00	-142.99
WQWB356	2	36	10	2	N	86	46	18	W	8.9	70.8	470.0000	66.38	-26.8	-80.00	-100.58	-2.00	-143.00
WQWB356	2	36	10	2	N	86	46	18	W	8.9	70.8	470.0000	66.38	-26.8	-80.00	-100.58	-2.00	-143.00
WQWB356	2	36	10	2	N	86	46	18	W	8.9	70.8	470.0000	66.38	-26.8	-80.00	-100.58	-2.00	-143.00
WQWB356	2	36	10	2	N	86	46	18	W	8.9	70.8	470.0000	66.38	-26.8	-80.00	-100.58	-2.00	-143.00
WPWW447	1	36	10	1.2	N	86	46	19.7	W	8.9	70.8	470.0000	66.38	-26.8	-80.00	-100.58	-2.00	-143.00
WQOZ534	1	36	7	33	N	86	46	3.4	W	9	100.7	470.0000	66.44	-26.8	-80.00	-100.68	-2.00	-143.04
WQOZ534	1	36	7	33	N	86	46	3.4	W	9	100.7	470.0000	66.44	-26.8	-80.00	-100.68	-2.00	-143.04
WQVI882	2	36	7	29.6	N	86	46	2.6	W	9	101.3	470.0000	66.43	-26.8	-80.00	-100.68	-2.00	-143.04
WQVI882	2	36	7	29.6	N	86	46	2.6	W	9	101.3	470.0000	66.43	-26.8	-80.00	-100.68	-2.00	-143.04
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-2.00	-143.09
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-2.00	-143.09
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-2.00	-143.09
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-2.00	-143.09
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-2.00	-143.09
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-2.00	-143.09
WQDL307	31	36	9	58.9	N	86	46	16.3	W	9	71.4	470.0000	66.39	-26.8	-80.00	-100.68	-	

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 KHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQOA563	33	36	10	45.8	N	86	46	38.7	W	9	61.5	470.0000	66.32	-26.8	-80.00	-100.68	-2.00	-143.16
WQOA563	33	36	10	45.8	N	86	46	38.7	W	9	61.5	470.0000	66.32	-26.8	-80.00	-100.68	-2.00	-143.16
WQOA563	33	36	10	45.8	N	86	46	38.7	W	9	61.5	470.0000	66.32	-26.8	-80.00	-100.68	-2.00	-143.16
WQOA563	33	36	10	45.8	N	86	46	38.7	W	9	61.5	470.0000	66.32	-26.8	-80.00	-100.68	-2.00	-143.16
WQOA563	33	36	10	45.8	N	86	46	38.7	W	9	61.5	470.0000	66.32	-26.8	-80.00	-100.68	-2.00	-143.16
WPPY461	2	36	10	2	N	86	46	12	W	9.1	71.1	470.0000	66.39	-26.8	-80.00	-100.77	-2.00	-143.19
WPPY461	2	36	10	2	N	86	46	12	W	9.1	71.1	470.0000	66.39	-26.8	-80.00	-100.77	-2.00	-143.19
WPPY461	2	36	10	2	N	86	46	12	W	9.1	71.1	470.0000	66.39	-26.8	-80.00	-100.77	-2.00	-143.19
WQXP461	1	36	11	40	N	86	47	32	W	8.9	47.8	470.0000	66.19	-26.8	-80.00	-100.58	-2.00	-143.19
WQSR638	1	36	12	1	N	86	47	57.5	W	8.9	42.0	470.0000	66.12	-26.8	-80.00	-100.58	-2.00	-143.26
WQSR638	1	36	12	1	N	86	47	57.5	W	8.9	42.0	470.0000	66.12	-26.8	-80.00	-100.58	-2.00	-143.26
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27
WRQJ617	10	36	9	56.8	N	86	46	6.9	W	9.2	72.3	470.0000	66.39	-26.8	-80.00	-100.87	-2.00	-143.27

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQSK787	4	36	5	50.8	N	86	45	19.2	W	11	115.9	470.0000	66.35	-26.8	-80.00	-102.42	-2.00	-144.87
WQSK787	4	36	5	50.8	N	86	45	19.2	W	11	115.9	470.0000	66.35	-26.8	-80.00	-102.42	-2.00	-144.87
WQSK787	4	36	5	50.8	N	86	45	19.2	W	11	115.9	470.0000	66.35	-26.8	-80.00	-102.42	-2.00	-144.87
WQSK787	4	36	5	50.8	N	86	45	19.2	W	11	115.9	470.0000	66.35	-26.8	-80.00	-102.42	-2.00	-144.87
WQXZ926	1	36	7	50	N	86	44	29.9	W	11.2	95.8	470.0000	66.47	-26.8	-80.00	-102.58	-2.00	-144.91
WNFL569	2	36	8	13.2	N	86	44	24	W	11.3	92.1	470.0000	66.50	-26.8	-80.00	-102.65	-2.00	-144.95
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WQVD819	1	36	8	15	N	86	52	58	W	1.6	256.5	470.0000	49.41	-26.8	-80.00	-85.67	-2.00	-145.07
WRVJ344	2	36	12	53.9	N	86	47	1	W	11	41.7	470.0000	66.10	-26.8	-80.00	-102.42	-2.00	-145.12
WRVJ344	2	36	12	53.9	N	86	47	1	W	11	41.7	470.0000	66.10	-26.8	-80.00	-102.42	-2.00	-145.12
WQNC265	74	36	8	20.4	N	86	53	2.4	W	1.7	263.0	470.0000	49.72	-26.8	-80.00	-86.20	-2.00	-145.28
WQNC265	74	36	8	20.4	N	86	53	2.4	W	1.7	263.0	470.0000	49.72	-26.8	-80.00	-86.20	-2.00	-145.28
KNAF645	3	36	2	59	N	86	49	59	W	10.5	163.9	470.0000	65.28	-26.8	-80.00	-102.02	-2.00	-145.54
WPMJ753	3	36	2	59.2	N	86	49	59	W	10.5	163.9	470.0000	65.28	-26.8	-80.00	-102.02	-2.00	-145.54
KNAF645	3	36	2	59	N	86	49	59	W	10.5	163.9	470.0000	65.28	-26.8	-80.00	-102.02	-2.00	-145.54
WRAS442	1	36	5	48.7	N	86	44	40.4	W	11.9	114.2	470.0000	66.35	-26.8	-80.00	-103.10	-2.00	-145.55
WRAS442	1	36	5	48.7	N	86	44	40.4	W	11.9	114.2	470.0000	66.35	-26.8	-80.00	-103.10	-2.00	-145.55
WRMG241	1	36	9	42.1	N	86	43	59	W	12.1	78.9	470.0000	66.43	-26.8	-80.00	-103.25	-2.00	-145.62
WRMG241	1	36	9	42.1	N	86	43	59	W	12.1	78.9	470.0000	66.43	-26.8	-80.00	-103.25	-2.00	-145.62
WRAR728	2	36	13	48.2	N	86	48	20.8	W	11.3	28.4	470.0000	65.80	-26.8	-80.00	-102.65	-2.00	-145.65
WRAR728	2	36	13	48.2	N	86	48	20.8	W	11.3	28.4	470.0000	65.80	-26.8	-80.00	-102.65	-2.00	-145.65
WRPJ393	1	36	13	9	N	86	46	36	W	11.8	42.5	470.0000	66.12	-26.8	-80.00	-103.03	-2.00	-145.71
WRKH611	7	36	5	24.8	N	86	44	47	W	12.1	117.7	470.0000	66.33	-26.8	-80.00	-103.25	-2.00	-145.71
WQGY299	1	36	3	24.6	N	86	51	53.4	W	9.3	179.6	470.0000	64.01	-26.8	-80.00	-100.96	-2.00	-145.75
WRPH815	2	36	8	4.9	N	86	43	41.7	W	12.4	93.1	470.0000	66.49	-26.8	-80.00	-103.46	-2.00	-145.77
WQFV808	2	36	13	55.1	N	86	48	12.9	W	11.5	28.7	470.0000	65.80	-26.8	-80.00	-102.81	-2.00	-145.80
WQFV808	2	36	13	55.1	N	86	48	12.9	W	11.5	28.7	470.0000	65.80	-26.8	-80.00	-102.81	-2.00	-145.80
WRMM273	1	36	10	24	N	86	44	2.4	W	12.4	72.9	470.0000	66.39	-26.8	-80.00	-103.46	-2.00	-145.87
WRMM273	1	36	10	24	N	86	44	2.4	W	12.4	72.9	470.0000	66.39	-26.8	-80.00	-103.46	-2.00	-145.87
WQVA224	15	36	13	32.2	N	86	47	1.4	W	11.9	37.9	470.0000	66.03	-26.8	-80.00	-103.10	-2.00	-145.87
WQVA224	15	36	13	32.2	N	86	47	1.4	W	11.9	37.9	470.0000	66.03	-26.8	-80.00	-103.10	-2.00	-145.87
WRCK251	1	36	11	39.4	N	86	44	38.1	W	12.4	61.4	470.0000	66.32	-26.8	-80.00	-103.46	-2.00	-145.94
WRCK251	1	36	11	39.4	N	86	44	38.1	W	12.4	61.4	470.0000	66.32	-26.8	-80.00	-103.46	-2.00	-145.94
WRUS307	2	36	9	26.2	N	86	43	19.3	W	13	81.9	470.0000	66.44	-26.8	-80.00	-103.87	-2.00	-146.23
WRUS307	3	36	9	26.2	N	86	43	19.3	W	13	81.9	470.0000	66.44	-26.8	-80.00	-103.87	-2.00	-146.23
WRTM806	2	36	5	15.2	N	86	44	10	W	13.1	117.0	470.0000	66.33	-26.8	-80.00	-103.94	-2.00	-146.40
WRTM806	2	36	5	15.2	N	86	44	10	W	13.1	117.0	470.0000	66.33	-26.8	-80.00	-103.94	-2.00	-146.40
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WQWTS31	1	36	12	1	N	86	44	21	W	13.1	59.7	470.0000	66.30	-26.8	-80.00	-103.94	-2.00	-146.44
WROZ489	2	36	14	36.5	N	86	49	18.6	W	12	19.0	470.0000	65.41	-26.8	-80.00	-103.18	-2.00	-146.56
WROZ489	2	36	14	36.5	N	86	49	18.6	W	12	19.0	470.0000	65.41	-26.8	-80.00	-103.18	-2.00	-146.56
WRUA834	1	36	9	7.1	N	86	42	50.5	W	13.7	84.8	470.0000	66.46	-26.8	-80.00	-104.33	-2.00	-146.66
WRUA834	1	36	9	7.1	N	86	42	50.5	W	13.7	84.8	470.0000	66.46	-26.8	-80.00	-104.33	-2.00	-146.66
WRUA834	1	36	9	7.1	N	86	42	50.5	W	13.7	84.8	470.0000	66.46	-26.8	-80.00	-104.33	-2.00	-146.66
WPCB339	2	36	5	3.2	N	86	53	56	W	7	205.4	470.0000	60.36	-26.8	-80.00	-98.49	-2.00	-146.94
WR																		

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

																			SORTED
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 KHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	
WQZX554	2	36	13	20.3	N		86	44	38.5	W	14.2	50.3	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQGG952	2	36	13	18.2	N		86	44	38	W	14.2	50.5	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQGG952	3	36	13	18.2	N		86	44	38	W	14.2	50.5	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQGG952	2	36	13	18.2	N		86	44	38	W	14.2	50.5	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQGG952	3	36	13	18.2	N		86	44	38	W	14.2	50.5	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQGG952	2	36	13	18.2	N		86	44	38	W	14.2	50.5	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQGG952	3	36	13	18.2	N		86	44	38	W	14.2	50.5	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQND532	9	36	13	20	N		86	44	38	W	14.2	50.3	470.0000	66.22	-26.8	-80.00	-104.64	-2.00	-147.22
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQSU632	1	36	14	8	N		86	45	32	W	14.2	42.2	470.0000	66.12	-26.8	-80.00	-104.64	-2.00	-147.32
WQTU493	1	36	7	22.8	N		86	42	10.5	W	14.8	97.7	470.0000	66.45	-26.8	-80.00	-105.00	-2.00	-147.34
WPZT953	2	36	4	39.6	N		86	43	25.9	W	14.6	118.8	470.0000	66.32	-26.8	-80.00	-104.88	-2.00	-147.35
WPZT953	2	36	4	39.6	N		86	43	25.9	W	14.6	118.8	470.0000	66.32	-26.8	-80.00	-104.88	-2.00	-147.35
WRDE755	2	36	1	41.3	N		86	47	37.3	W	14.1	152.7	470.0000	65.80	-26.8	-80.00	-104.58	-2.00	-147.57
WRDB988	2	36	1	59.2	N		86	46	35.4	W	14.4	146.2	470.0000	65.97	-26.8	-80.00	-104.76	-2.00	-147.59
WPLV704	2	36	15	21.2	N		86	49	21	W	13.3	16.8	470.0000	65.21	-26.8	-80.00	-104.07	-2.00	-147.66
WPGH710	3	36	15	21.2	N		86	49	21	W	13.3	16.8	470.0000	65.21	-26.8	-80.00	-104.07	-2.00	-147.66
WPGH710	3	36	15	21.2	N		86	49	21	W	13.3	16.8	470.0000	65.21	-26.8	-80.00	-104.07	-2.00	-147.66
WPGH710	3	36	15	21.2	N		86	49	21	W	13.3	16.8	470.0000	65.21	-26.8	-80.00	-104.07	-2.00	-147.66
WPGH748	3	36	14	27.1	N		86	45	26.3	W	14.8	41.1	470.0000	66.10	-26.8	-80.00	-105.00	-2.00	-147.69
WQQP636	1	36	7	42.7	N		86	41	36.6	W	15.5	95.0	470.0000	66.47	-26.8	-80.00	-105.40	-2.00	-147.73
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WNYH487	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WPLX690	1	36	8	44.2	N		86	41	31	W	15.6	88.0	470.0000	66.50	-26.8	-80.00	-105.45	-2.00	-147.75
WQUM229	1	36	1	33.4	N		86	47	24.3	W	14.4	152.0	470.0000	65.80	-26.8	-80.00	-104.76	-2.00	-147.76
WQUM229	1	36	1	33.4	N		86	47	24.3	W	14.4	152.0	470.0000	65.80	-26.8	-80.00	-104.76	-2.00	-147.76
WQUM229	1	36	1	33.4	N		86	47	24.3	W	14.4	152.0	470.0000	65.80	-26.8	-80.00	-104.76	-2.00	-147.76
WQUP944	1	36	7	47.1	N		86	41	31.7	W	15.7	94.5	470.0000	66.48	-26.8	-80.00	-105.51	-2.00	-147.83
WQUP944	1	36	7	47.1	N		86	41	31.7	W	15.7	94.5	470.0000	66.48	-26.8	-80.00	-105.51	-2.00	-147.83
WQUP944	1	36	7	47.1	N		86	41	31.7	W	15.7	94.5	470.0000	66.48	-26.8	-80.00	-105.51	-2.00	-147.83
WQUP944	1	36	7	47.1	N		86	41	31.7	W	15.7	94.5	470.0000	66.48	-26.8	-80.00	-105.51	-2.00	

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

																			SORTED
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 KHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	
KNJB544	2	36	6	47.2	N	86	41	33	W	15.9	101.2	470.0000	66.43	-26.8	-80.00	-105.62	-2.00	-147.99	
WINDA491	3	36	7	38.2	N	86	41	12	W	16.2	95.3	470.0000	66.47	-26.8	-80.00	-105.78	-2.00	-148.11	
WINDA491	2	36	7	38.2	N	86	41	12	W	16.2	95.3	470.0000	66.47	-26.8	-80.00	-105.78	-2.00	-148.11	
WINDA491	2	36	7	38.2	N	86	41	12	W	16.2	95.3	470.0000	66.47	-26.8	-80.00	-105.78	-2.00	-148.11	
WRKH589	12	36	9	0.5	N	86	41	6.5	W	16.3	86.3	470.0000	66.48	-26.8	-80.00	-105.84	-2.00	-148.16	
WRVA768	1	36	9	0.8	N	86	41	6.2	W	16.3	86.3	470.0000	66.48	-26.8	-80.00	-105.84	-2.00	-148.16	
WRCY205	2	36	8	42.9	N	86	40	59.2	W	16.4	88.2	470.0000	66.50	-26.8	-80.00	-105.89	-2.00	-148.19	
WPXZ548	1	36	8	0.2	N	86	41	0	W	16.4	92.8	470.0000	66.50	-26.8	-80.00	-105.89	-2.00	-148.19	
WRUN723	7	36	0	58.8	N	86	48	54.4	W	14.5	161.9	470.0000	65.41	-26.8	-80.00	-104.82	-2.00	-148.21	
WRJF776	1	36	4	59.5	N	86	42	2.9	W	16.2	113.4	470.0000	66.36	-26.8	-80.00	-105.78	-2.00	-148.22	
WRUN424	7	36	1	0.8	N	86	49	11.7	W	14.4	163.4	470.0000	65.28	-26.8	-80.00	-104.76	-2.00	-148.28	
WQTZ611	1	36	5	0.9	N	86	41	51.3	W	16.4	112.8	470.0000	66.37	-26.8	-80.00	-105.89	-2.00	-148.32	
WQTZ611	1	36	5	0.9	N	86	41	51.3	W	16.4	112.8	470.0000	66.37	-26.8	-80.00	-105.89	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WPPQA386	7	36	7	37.2	N	86	40	53	W	16.6	95.3	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WNSP342	1	36	7	36.2	N	86	40	54	W	16.6	95.4	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WQNY594	2	36	7	36.2	N	86	40	54	W	16.6	95.4	470.0000	66.47	-26.8	-80.00	-105.99	-2.00	-148.32	
WINDA926	2	36	7	2.2	N	86	41	0	W	16.6	99.0	470.0000	66.44	-26.8	-80.00	-105.99	-2.00	-148.35	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N	86	41	41	W	16.5	111.6	470.0000	66.38	-26.8	-80.00	-105.94	-2.00	-148.37	
WQTD530	1	36	5	10	N														

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Sorted
																		Calculated interfering signal field strength (dBu)
WRDM296	1	36	6	25	N	86	40	47.5	W	17.1	102.7	470.0000	66.43	-26.8	-80.00	-106.25	-2.00	-148.62
WRDM296	1	36	6	25	N	86	40	47.5	W	17.1	102.7	470.0000	66.43	-26.8	-80.00	-106.25	-2.00	-148.62
WPGH486	3	36	7	1.9	N	86	40	37.4	W	17.2	98.8	470.0000	66.44	-26.8	-80.00	-106.30	-2.00	-148.66
KXS603	2	36	12	29.2	N	86	41	39	W	17.1	64.0	470.0000	66.34	-26.8	-80.00	-106.25	-2.00	-148.71
WRUL823	1	36	10	12.5	N	86	40	37.9	W	17.3	79.0	470.0000	66.43	-26.8	-80.00	-106.35	-2.00	-148.72
WQDS321	2	36	12	48.5	N	86	41	53	W	17.1	61.7	470.0000	66.32	-26.8	-80.00	-106.25	-2.00	-148.73
WQDS321	2	36	12	48.5	N	86	41	53	W	17.1	61.7	470.0000	66.32	-26.8	-80.00	-106.25	-2.00	-148.73
WQDS321	2	36	12	48.5	N	86	41	53	W	17.1	61.7	470.0000	66.32	-26.8	-80.00	-106.25	-2.00	-148.73
WQDS321	2	36	12	48.5	N	86	41	53	W	17.1	61.7	470.0000	66.32	-26.8	-80.00	-106.25	-2.00	-148.73
WQDS321	2	36	12	48.5	N	86	41	53	W	17.1	61.7	470.0000	66.32	-26.8	-80.00	-106.25	-2.00	-148.73
WQDS896	17	36	12	6.2	N	86	41	22	W	17.2	66.8	470.0000	66.35	-26.8	-80.00	-106.30	-2.00	-148.75
WQDS896	17	36	12	6.2	N	86	41	22	W	17.2	66.8	470.0000	66.35	-26.8	-80.00	-106.30	-2.00	-148.75
WQU5465	2	36	8	53.5	N	86	40	15.9	W	17.5	87.3	470.0000	66.49	-26.8	-80.00	-106.45	-2.00	-148.76
KITS45	2	36	7	57.2	N	86	40	17	W	17.5	93.0	470.0000	66.49	-26.8	-80.00	-106.45	-2.00	-148.76
KITS45	3	36	7	57.2	N	86	40	17	W	17.5	93.0	470.0000	66.49	-26.8	-80.00	-106.45	-2.00	-148.76
WRBS977	4	36	12	24.8	N	86	41	32.2	W	17.2	64.7	470.0000	66.34	-26.8	-80.00	-106.30	-2.00	-148.76
WRBS977	4	36	12	24.8	N	86	41	32.2	W	17.2	64.7	470.0000	66.34	-26.8	-80.00	-106.30	-2.00	-148.76
WRBS977	5	36	12	24.8	N	86	41	32.2	W	17.2	64.7	470.0000	66.34	-26.8	-80.00	-106.30	-2.00	-148.76
WRBS977	2	36	12	24.5	N	86	41	31.3	W	17.2	64.7	470.0000	66.34	-26.8	-80.00	-106.30	-2.00	-148.76
WYV873	3	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
KNDZ493	2	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2	63.5	470.0000	66.33	-26.8	-80.00	-106.30	-2.00	-148.77
WNSR200	1	36	12	34.2	N	86	41	40	W	17.2								

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED Calculated interfering signal field strength (dBu)
WQWX937	4	35	59	39	N	86	48	32.6	W	17.1	162.7	470.0000	65.35	-26.8	-80.00	-106.25	-2.00	-149.70
WQWX937	2	35	59	39	N	86	48	32.6	W	17.1	162.7	470.0000	65.35	-26.8	-80.00	-106.25	-2.00	-149.70
WRWC305	1	36	9	44.2	N	86	38	57.3	W	19.6	82.9	470.0000	66.44	-26.8	-80.00	-107.44	-2.00	-149.79
WRWC305	1	36	9	44.2	N	86	38	57.3	W	19.6	82.9	470.0000	66.44	-26.8	-80.00	-107.44	-2.00	-149.79
WRWC305	1	36	9	44.2	N	86	38	57.3	W	19.6	82.9	470.0000	66.44	-26.8	-80.00	-107.44	-2.00	-149.79
WPGH486	1	36	16	12.2	N	86	52	10	W	14.3	358.6	470.0000	63.70	-26.8	-80.00	-104.70	-2.00	-149.80
WZW591	3	36	16	12.2	N	86	52	18	W	14.3	357.8	470.0000	63.59	-26.8	-80.00	-104.70	-2.00	-149.91
WPMS332	1	36	16	12.2	N	86	52	18	W	14.3	357.8	470.0000	63.59	-26.8	-80.00	-104.70	-2.00	-149.91
WPMS332	1	36	16	12.2	N	86	52	18	W	14.3	357.8	470.0000	63.59	-26.8	-80.00	-104.70	-2.00	-149.91
WPMS332	1	36	16	12.2	N	86	52	18	W	14.3	357.8	470.0000	63.59	-26.8	-80.00	-104.70	-2.00	-149.91
WPLV778	3	35	59	22.2	N	86	49	21	W	17.2	167.0	470.0000	65.01	-26.8	-80.00	-106.30	-2.00	-150.10
WPGH743	3	35	59	22.2	N	86	49	21	W	17.2	167.0	470.0000	65.01	-26.8	-80.00	-106.30	-2.00	-150.10
WPGH743	3	35	59	22.2	N	86	49	21	W	17.2	167.0	470.0000	65.01	-26.8	-80.00	-106.30	-2.00	-150.10
WPLV778	3	35	59	22.2	N	86	49	21	W	17.2	167.0	470.0000	65.01	-26.8	-80.00	-106.30	-2.00	-150.10
WPGH743	3	35	59	22.2	N	86	49	21	W	17.2	167.0	470.0000	65.01	-26.8	-80.00	-106.30	-2.00	-150.10
KNEF390	3	35	59	22.2	N	86	49	21	W	17.2	167.0	470.0000	65.01	-26.8	-80.00	-106.30	-2.00	-150.10
WRPH825	2	36	8	36	N	86	38	15	W	20.5	89.2	470.0000	66.51	-26.8	-80.00	-107.83	-2.00	-150.12
WRPH825	3	36	8	36	N	86	38	15	W	20.5	89.2	470.0000	66.51	-26.8	-80.00	-107.83	-2.00	-150.12
WRMC824	2	35	59	20	N	86	49	25.9	W	17.3	167.5	470.0000	65.01	-26.8	-80.00	-106.35	-2.00	-150.15
WPYQ241	2	36	17	3.2	N	86	51	48.1	W	15.9	0.7	470.0000	63.93	-26.8	-80.00	-105.62	-2.00	-150.49
WQHE537	7	36	2	42	N	86	39	51	W	21	120.4	470.0000	66.30	-26.8	-80.00	-108.04	-2.00	-150.53
WQHE537	7	36	2	42	N	86	39	51	W	21	120.4	470.0000	66.30	-26.8	-80.00	-108.04	-2.00	-150.53
WQHE537	7	36	2	42	N	86	39	51	W	21	120.4	470.0000	66.30	-26.8	-80.00	-108.04	-2.00	-150.53
WQHE537	7	36	2	42	N	86	39	51	W	21	120.4	470.0000	66.30	-26.8	-80.00	-108.04	-2.00	-150.53
WQHE537	7	36	2	42	N	86	39	51	W	21	120.4	470.0000	66.30	-26.8	-80.00	-108.04	-2.00	-150.53
WRUN422	10	35	58	47.6	N	86	46	19.2	W	19.7	154.8	470.0000	65.73	-26.8	-80.00	-107.48	-2.00	-150.55
WRJV620	4	36	3	4.8	N	86	39	27	W	21.2	118.0	470.0000	66.32	-26.8	-80.00	-108.12	-2.00	-150.59
WRUN424	9	36	0	35.1	N	86	53	9.6	W	14.7	187.2	470.0000	63.11	-26.8	-80.00	-104.94	-2.00	-150.62
WQWW390	2	36	15	11.2	N	86	40	34	W	21.1	53.6	470.0000	66.25	-26.8	-80.00	-108.08	-2.00	-150.62
WQIX690	10	36	2	57.3	N	86	39	28.9	W	21.3	118.6	470.0000	66.32	-26.8	-80.00	-108.16	-2.00	-150.63
WQIX690	10	36	2	57.3	N	86	39	28.9	W	21.3	118.6	470.0000	66.32	-26.8	-80.00	-108.16	-2.00	-150.63
WQIX690	10	36	2	57.3	N	86	39	28.9	W	21.3	118.6	470.0000	66.32	-26.8	-80.00	-108.16	-2.00	-150.63
WQIX690	10	36	2	57.3	N	86	39	28.9	W	21.3	118.6	470.0000	66.32	-26.8	-80.00	-108.16	-2.00	-150.63
WPXE452	5	36	2	57.7	N	86	39	25	W	21.4	118.4	470.0000	66.32	-26.8	-80.00	-108.20	-2.00	-150.68
WQQM460	1	35	59	5.8	N	86	43	52.3	W	21.1	145.1	470.0000	65.99	-26.8	-80.00	-108.08	-2.00	-150.88
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WQVE463	1	36	4	28	N	86	55	17	W	8.9	214.2	470.0000	58.37	-26.8	-80.00	-100.58	-2.00	-151.00
WRBU631	13	35	58	9	N	86	48	15.1	W	19.8	163.9	470.0000	65.28	-26.8	-80.00	-107.53	-2.00	-151.05
WRBU631	13	35	58	9	N	86	48	15.1	W	19.8	163.9	470.0000	65.28	-26.8	-80.00	-107.53	-2.00	-151.05
WRBU631	13	35	58	9	N	86	48	15.1	W	19.8	163.9	470.0000	65.28	-26.8	-80.00	-107.53	-2.00	-151.05
WRBU631	13	35	58	9	N	86	48	15.1	W	19.8	163.9	470.0000	65.28	-26.8	-80.00	-107.53	-2.00	-151.05
WRNS629	1	36	15	59.7	N	86	40	24.3	W	22.2	50.9	470.0000	66.22	-26.8	-80.00	-108.52	-2.00	-151.10
WRKH589	11	36	2	23.7	N	86	38	49	W	22.6	119.7	470.0000	66.32	-26.8	-80.00	-108.67	-2.00	-151.15
WRJ369	2	36	11	2.7	N	86	36	56.9	W	23	77.8	470.0000	66.42	-26.8	-80.00	-108.83	-2.00	-151.20
WQHE537	19	36	11	38	N	86	37	3	W	23.1	75.1	470.0000	66.42	-26.8	-80.00	-108.86	-2.00	-151.25
WQHE537	19	36	11	38	N	86	37	3	W	23.1	75.1	470.0000	66.42	-26.8	-80.00	-108.86	-2.00	-151.25
WQHE537	19	36	11	38	N	86	37	3	W	23.1	75.1	470.0000	66.42	-26.8	-80.00	-108.86	-2.00	-151.25
WQHE537	19	36	11	38	N	86	37	3	W	23.1	75.1	470.0000	66.42	-26.8	-80.00	-108.86	-2.00	-151.25
WQHE537	19	36	11	38	N	86	37	3	W	23.1	75.1	470.0000	66.42	-26.8	-80.00	-108.86	-2.00	-151.25
WQHE537	9	35	57	55	N	86	48	3	W	20.3	163.4	470.0000	65.28	-26.8	-80.00	-107.74	-2.00	-151.26
WQHE537	9	35	57	55	N	86	48	3	W	20.3	163.4	470.0000	65.28	-26.8	-80.00	-107.74	-2.00	-151.26
WQHE537	9	35	57	55	N	86	48	3	W	20.3	163.4	470.0000	65.28	-26.8	-80.00	-107.74	-2.00	-151.26
WQHE537	9	35	57	55	N	86	48	3	W	20.3	163.4	470.0000	65.28	-26.8	-80.00	-107.74	-2.00	-151.26
WQHE537	6	36	17	32	N	86	42	11	W	22.3	40.8	470.0000	66.09	-26.8	-80.00	-108.56	-2.00	-151.27
WQHE537	6	36	17	32	N	86	42	11	W	22.3	40.8	470.0000	66.09	-26.8	-80.00	-108.56	-2.00	-151.27
WQHE537	6	36	17	32	N	86	42	11	W	22.3	40.8	470.0000	66.09	-26.8	-80.00	-108.56	-2.00	-151.27
WQHE537	6	36	17	32	N	86	42	11	W	22.3	40.8	470.0000	66.09	-26.8	-80.00	-108.56	-2.00	-151.27
WQWB246	1	36	14	51.3	N	86	38	45.2	W	23	58.9	470.0000	66.29	-26.8	-80.00	-108.83	-2.00	-151.34
WQWB246	1	36	14	51.3	N	86	38	45.2	W	23	58.9	470.0000	66.29	-26.8	-80.00	-108.83	-2.00	-151.34
WQQL986	1	36	14	54.4	N	86	38	44.7	W	23.1	58.7	470.0000	66.29	-26.8	-80.00	-108.86	-2.00	-151.37
WRCK784	2	36	1	48.6	N	86	38	46.3	W	23.3	121.9	470.0000	66.30	-26.8	-80.00	-108.94	-2.00	-151.44
WQFA564	1	36	17	57.8	N	86	42	1.1	W	23	40.0	470.0000	66.09	-26.8	-80.00	-108.83	-2.00	-151.53

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED	
																		Calculated interfering signal field strength (dBu)	
WQFA564	1	36	17	57.8	N		86	42	1.1	W	23	40.0	470.0000	66.09	-26.8	-80.00	-108.83	-2.00	-151.53
WQAS444	5	36	16	44	N		86	40	12.6	W	23.3	48.7	470.0000	66.20	-26.8	-80.00	-108.94	-2.00	-151.54
WQAS444	5	36	16	44	N		86	40	12.6	W	23.3	48.7	470.0000	66.20	-26.8	-80.00	-108.94	-2.00	-151.54
WPIY388	5	36	16	26.2	N		86	39	47.5	W	23.4	50.8	470.0000	66.22	-26.8	-80.00	-108.98	-2.00	-151.56
WQFA650	1	35	57	38.3	N		86	48	37.2	W	20.6	166.1	470.0000	65.08	-26.8	-80.00	-107.87	-2.00	-151.59
WQFA650	1	35	57	38.3	N		86	48	37.2	W	20.6	166.1	470.0000	65.08	-26.8	-80.00	-107.87	-2.00	-151.59
WQOG409	2	36	16	8.7	N		86	39	10.1	W	23.8	53.2	470.0000	66.25	-26.8	-80.00	-109.12	-2.00	-151.67
WQOG409	2	36	16	8.7	N		86	39	10.1	W	23.8	53.2	470.0000	66.25	-26.8	-80.00	-109.12	-2.00	-151.67
WNNY473	3	36	12	56.2	N		86	36	47	W	24.2	69.8	470.0000	66.38	-26.8	-80.00	-109.27	-2.00	-151.69
WQCD910	2	36	18	36.2	N		86	42	53	W	23.2	35.7	470.0000	65.99	-26.8	-80.00	-108.90	-2.00	-151.71
WQCD910	2	36	18	36.2	N		86	42	53	W	23.2	35.7	470.0000	65.99	-26.8	-80.00	-108.90	-2.00	-151.71
WQCD910	2	36	18	36.2	N		86	42	53	W	23.2	35.7	470.0000	65.99	-26.8	-80.00	-108.90	-2.00	-151.71
WQRK375	3	36	18	10.7	N		86	41	51	W	23.5	39.9	470.0000	66.07	-26.8	-80.00	-109.01	-2.00	-151.74
WQRK375	3	36	18	10.7	N		86	41	51	W	23.5	39.9	470.0000	66.07	-26.8	-80.00	-109.01	-2.00	-151.74
WNNWC811	2	35	57	30.2	N		86	49	11	W	20.7	168.5	470.0000	64.93	-26.8	-80.00	-107.91	-2.00	-151.78
WRWB328	2	35	57	30.2	N		86	49	11	W	20.7	168.5	470.0000	64.93	-26.8	-80.00	-107.91	-2.00	-151.78
WRUN423	6	35	57	19.9	N		86	45	52.2	W	22.5	156.2	470.0000	65.65	-26.8	-80.00	-108.64	-2.00	-151.79
WQVP754	1	35	57	25	N		86	48	49	W	20.9	167.1	470.0000	65.01	-26.8	-80.00	-107.99	-2.00	-151.79
WQVP754	1	35	57	25	N		86	48	49	W	20.9	167.1	470.0000	65.01	-26.8	-80.00	-107.99	-2.00	-151.79
WQVP754	1	35	57	25	N		86	48	49	W	20.9	167.1	470.0000	65.01	-26.8	-80.00	-107.99	-2.00	-151.79
WQVP754	1	35	57	25	N		86	48	49	W	20.9	167.1	470.0000	65.01	-26.8	-80.00	-107.99	-2.00	-151.79
WQVP754	1	35	57	25	N		86	48	49	W	20.9	167.1	470.0000	65.01	-26.8	-80.00	-107.99	-2.00	-151.79
WQIK661	15	35	57	21.6	N		86	48	53.5	W	21	167.5	470.0000	65.01	-26.8	-80.00	-108.04	-2.00	-151.83
WQIK661	15	35	57	21.6	N		86	48	53.5	W	21	167.5	470.0000	65.01	-26.8	-80.00	-108.04	-2.00	-151.83
WQIK661	15	35	57	21.6	N		86	48	53.5	W	21	167.5	470.0000	65.01	-26.8	-80.00	-108.04	-2.00	-151.83
WQIK661	15	35	57	21.6	N		86	48	53.5	W	21	167.5	470.0000	65.01	-26.8	-80.00	-108.04	-2.00	-151.83
WQOB999	10	35	57	12.5	N		86	48	51.4	W	21.3	167.5	470.0000	65.01	-26.8	-80.00	-108.16	-2.00	-151.95
WQOB999	10	35	57	12.5	N		86	48	51.4	W	21.3	167.5	470.0000	65.01	-26.8	-80.00	-108.16	-2.00	-151.95
WQOB999	10	35	57	12.5	N		86	48	51.4	W	21.3	167.5	470.0000	65.01	-26.8	-80.00	-108.16	-2.00	-151.95
WQOB999	10	35	57	12.5	N		86	48	51.4	W	21.3	167.5	470.0000	65.01	-26.8	-80.00	-108.16	-2.00	-151.95
WRCK784	1	35	57	6.3	N		86	48	38.2	W	21.6	166.8	470.0000	65.08	-26.8	-80.00	-108.28	-2.00	-152.00
WRKI668	2	35	57	17.6	N		86	49	41	W	20.9	170.7	470.0000	64.78	-26.8	-80.00	-107.99	-2.00	-152.01
WQAUS29	3	36	19	15.2	N		86	42	49	W	24.2	34.2	470.0000	65.97	-26.8	-80.00	-109.27	-2.00	-152.09
WQAUS29	1	36	19	15.2	N		86	42	49	W	24.2	34.2	470.0000	65.97	-26.8	-80.00	-109.27	-2.00	-152.09
WRDN225	1	35	58	43.3	N		86	53	20.6	W	18.1	186.7	470.0000	63.23	-26.8	-80.00	-106.75	-2.00	-152.32
WRDN225	1	35	58	43.3	N		86	53	20.6	W	18.1	186.7	470.0000	63.23	-26.8	-80.00	-106.75	-2.00	-152.32
WRDN225	1	35	58	43.3	N		86	53	20.6	W	18.1	186.7	470.0000	63.23	-26.8	-80.00	-106.75	-2.00	-152.32
WRDN225	1	35	58	43.3	N		86	53	20.6	W	18.1	186.7	470.0000	63.23	-26.8	-80.00	-106.75	-2.00	-152.32
WRDN225	1	35	58	43.3	N		86	53	20.6	W	18.1	186.7	470.0000	63.23	-26.8	-80.00	-106.75	-2.00	-152.32
WRDN225	1	35	58	43.3	N		86	53	20.6	W	18.1	186.7	470.0000	63.23	-26.8	-80.00	-106.75	-2.00	-152.32
WPRH945	2	36	19	30.2	N		86	42	24	W	24.9	34.8	470.0000	65.97	-26.8	-80.00	-109.52	-2.00	-152.34
WPRH945	2	36	19	30.2	N		86	42	24	W	24.9	34.8	470.0000	65.97	-26.8	-80.00	-109.52	-2.00	-152.34
WPRH945	2	36	19	30.2	N		86	42	24	W	24.9	34.8	470.0000	65.97	-26.8	-80.00	-109.52	-2.00	-152.34
WRUN422	8	35	57	53.6	N		86	41	2.4	W	25.5	140.1	470.0000	66.09	-26.8	-80.00	-109.72	-2.00	-152.43
WREK366	1	36	1	42.6	N		86	36	23.6	W	26.4	118.1	470.0000	66.32	-26.8	-80.00	-110.02	-2.00	-152.50
WREK366	1	36	1	42.6	N		86	36	23.6	W	26.4	118.1	470.0000	66.32	-26.8	-80.00	-110.02	-2.00	-152.50
WREK366	1	36	1	42.6	N		86	36	23.6	W	26.4	118.1	470.0000	66.32	-26.8	-80.00	-110.02	-2.00	-152.50
WREK366	1	36	1	42.6	N		86	36	23.6	W	26.4	118.1	470.0000	66.32	-26.8	-80.00	-110.02	-2.00	-152.50
WRCPS93	1	35	56	58.4	N		86	50	36.2	W	21.3	174.6	470.0000	64.45	-26.8	-80.00	-108.16	-2.00	-152.51
WRCPS93	1	35	56	58.4	N		86	50	36.2	W	21.3	174.6	470.0000	64.45	-26.8	-80.00	-108.16	-2.00	-152.51
WRBR304	1	36	0	45.9	N		86	37	1.8	W	26.5	122.5	470.0000	66.29	-26.8	-80.00	-110.06	-2.00	-152.57
WNPV397	13	36	17	55.2	N		86	53	55	W	17.8	350.4	470.0000	62.75	-26.8	-80.00	-106.60	-2.00	-152.65
WNPV397	13	36	17	55.2	N		86	53	55	W	17.8	350.4	470.0000	62.75	-26.8	-80.00	-106.60	-2.00	-152.65
WQZ5672	3	35	56	12.7	N		86	48	41.5	W	23.1	167.9	470.0000	65.01	-26.8	-80.00	-108.86	-2.00	-152.66
WQZ5672	2	35	56	12.7	N		86	48	41.5	W	23.1	167.9	470.0000	65.01	-26.8	-80.00	-108.86	-2.00	-152.66
WRAH504	2	35	57	5.1	N		86	51	28.1	W	21	178.1	470.0000	64.10	-26.8	-80.00	-108.04	-2.00	-152.74
WRTZ279	4	36	0	41	N		86	36	29.8	W	27.3	121.8	470.0000	66.30	-26.8	-80.00	-110.32	-2.00	-152.82
WRBC967	1	36	1	27.9	N		86	35	50.8	W	27.4	118.2	470.0000	66.32	-26.8	-80.00	-110.35	-2.00	-152.82
WRBC967	1	36	1	27.9	N		86	35	50.8	W	27.4	118.2	470.000						

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal strength (dBu)	SORTED
WNSU828	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KUQ497	3	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KUQ496	3	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
WNSU828	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
WNSU828	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
WNSU828	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
WNSU828	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
WNSU828	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
KD26551	1	36	0	29.2	N	86	35	46	W	28.4	121.3	470.0000	66.30	-26.8	-80.00	-110.66	-2.00	-153.16	
WRBM317	1	36	18	29.4	N	86	37	44.1	W	28.2	48.7	470.0000	66.20	-26.8	-80.00	-110.60	-2.00	-153.19	
WQSI462	3	36	1	7.8	N	86	35	11.1	W	28.6	118.3	470.0000	66.32	-26.8	-80.00	-110.72	-2.00	-153.19	
WRJC948	2	36	12	51.8	N	86	33	28.1	W	28.9	73.4	470.0000	66.40	-26.8	-80.00	-110.81	-2.00	-153.21	
WQZA724	3	35	59	47.9	N	86	36	13.9	W	28.5	124.2	470.0000	66.28	-26.8	-80.00	-110.69	-2.00	-153.21	
WQZA724	1	35	59	45.1	N	86	36	12.1	W	28.6	124.3	470.0000	66.28	-26.8	-80.00	-110.72	-2.00	-153.24	
WQZA724	1	35	59	45.1	N	86	36	12.1	W	28.6	124.3	470.0000	66.28	-26.8	-80.00	-110.72	-2.00	-153.24	
WQZA724	1	35	59	45.1	N	86	36	12.1	W	28.6	124.3	470.0000	66.28	-26.8	-80.00	-110.72	-2.00	-153.24	
WQZA724	1	35	59	45.1	N	86	36	12.1	W	28.6	124.3	470.0000	66.28	-26.8	-80.00	-110.72	-2.00	-153.24	
WQZA724	1	35	59	45.1	N	86	36	12.1	W	28.6	124.3	470.0000	66.28	-26.8	-80.00	-110.72	-2.00	-153.24	
WPQI467	2	36	0	20.2	N	86	35	30	W	28.9	121.3	470.0000	66.30	-26.8	-80.00	-110.81	-2.00	-153.31	
WPQI467	2	36	0	20.2	N	86	35	30	W	28.9	121.3	470.0000	66.30	-26.8	-80.00	-110.81	-2.00	-153.31	
WQXR435	1	36	18	27.4	N	86	37	18	W	28.7	49.6	470.0000	66.21	-26.8	-80.00	-110.75	-2.00	-153.34	
WNPX819	3	36	0	49.2	N	86	34	59	W	29.1	119.0	470.0000	66.32	-26.8	-80.00	-110.87	-2.00	-153.35	
WNNI348	4	36	0	49.2	N	86	34	59	W	29.1	119.0	470.0000	66.32	-26.8	-80.00	-110.87	-2.00	-153.35	
WRJH366	1	36	0	24.3	N	86	35	10.4	W	29.2	120.6	470.0000	66.30	-26.8	-80.00	-110.90	-2.00	-153.39	
WRJH366	1	36	0	24.3	N	86	35	10.4	W	29.2	120.6	470.0000	66.30	-26.8	-80.00	-110.90	-2.00	-153.39	
WRAW820	2	35	56	33.8	N	86	39	49.3	W	28.5	140.5	470.0000	66.09	-26.8	-80.00	-110.69	-2.00	-153.40	
WRHZ703	1	36	0	29.8	N	86	35	0.8	W	29.4	120.1	470.0000	66.30	-26.8	-80.00	-110.96	-2.00	-153.45	
WPGH743	5	35	55	10.5	N	86	42	55.7	W	28	151.2	470.0000	65.84	-26.8	-80.00	-110.54	-2.00	-153.50	
WPGH743	5	35	55	10.5	N	86	42	55.7	W	28	151.2	470.0000	65.84	-26.8	-80.00	-110.54	-2.00	-153.50	
WPGH743	5	35	55	10.5	N	86	42	55.7	W	28	151.2	470.0000	65.84	-26.8	-80.00	-110.54	-2.00	-153.50	
WPEE492	3	35	59	53.2	N	86	35	20	W	29.5	122.5	470.0000	66.29	-26.8	-80.00	-110.99	-2.00	-153.50	
WPEE492	3	35	59	53.2	N	86	35	20	W	29.5	122.5	470.0000	66.29	-26.8	-80.00	-110.99	-2.00	-153.50	
WPEE492	3	35	59	53.2	N	86	35	20	W	29.5	122.5	470.0000	66.29	-26.8	-80.00	-110.99	-2.00	-153.50	
KD48348	1	35	59	53.2	N	86	35	20	W	29.5	122.5	470.0000	66.29	-26.8	-80.00	-110.99	-2.00	-153.50	
WQWN302	2	36	18	10.9	N	86	36	22.3	W	29.5	52.1	470.0000	66.24	-26.8	-80.00	-110.99	-2.00	-153.54	
WRDP757	2	36	1	22.2	N	86	33	59.7	W	29.9	115.9	470.0000	66.35	-26.8	-80.00	-111.11	-2.00	-153.56	
WRMF451	4	36	1	48.7	N	86	33	39.9	W	30	114.1	470.0000	66.35	-26.8	-80.00	-111.13	-2.00	-153.58	
WRUN723	12	35	56	33.3	N	86	39	9.4	W	29.2	139.0	470.0000	66.10	-26.8	-80.00	-110.90	-2.00	-153.60	
WQTU547	1	35	54	58.4	N	86	49	10.1	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WQTU547	1	35	54	58.4	N	86	49	10.1	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WQTU547	1	35	54	58.4	N	86	49	10.1	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WQTU547	1	35	54	58.4	N	86	49	10.1	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WQVQ483	3	35	54	58.7	N	86	49	10.5	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WQTU547	1	35	54	58.4	N	86	49	10.1	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WQTU547	1	35	54	58.4	N	86	49	10.1	W	25.3	170.6	470.0000	64.78	-26.8	-80.00	-109.65	-2.00	-153.67	
WRUN424	12	35	56	25.7	N	86	39	3.8	W	29.5	139.1	470.0000	66.10	-26.8	-80.00	-110.99	-2.00	-153.68	
WRUN723	10	35	56	22.1	N	86	52	41.1	W	22.4	182.9	470.0000	63.70	-26.8	-80.00	-108.60	-2.00	-153.70	
WQHE537	20	35	55	7	N	86	49	39	W	24.9	172.1	470.0000	64.62	-26.8	-80.00	-109.52	-2.00	-153.70	
WQHE537	20	35	55	7	N	86	49	39	W	24.9	172.1	470.0000	64.62	-26.8	-80.00	-109.52	-2.00	-153.70	
WQHE537	20	35	55	7	N	86	49	39	W	24.9	172.1	470.0000	64.62	-26.8	-80.00	-109.52	-2.00	-153.70	
WQHE537	20	35	55	7	N	86	49	39	W	24.9	172.1	470.0000	64.62	-26.8	-80.00	-109.52	-2.00	-153.70	
WQHE537	20	35	55	7	N	86	49	39	W	24.9	172.1	470.0000	64.62	-26.8	-80.00	-109.52	-2.00	-153.70	
WQNN882	2	36	19	27.9	N	86	37	22.9	W	29.8	46.7	470.0000	66.18	-26.8	-80.00	-111.08	-2.00	-153.70	
WQQV442	5	36	18	42	N	86	36	21	W	30.1	50.7	470.0000	66.22	-					

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WRAH504	4	35	55	42.7	N	86	51	51.2	W	23.6	179.7	470.0000	64.01	-26.8	-80.00	-109.05	-2.00	-153.84
WRON488	2	35	59	34.7	N	86	34	38.1	W	30.7	122.3	470.0000	66.29	-26.8	-80.00	-111.33	-2.00	-153.85
WRNS820	1	35	54	42.3	N	86	49	31.2	W	25.7	171.9	470.0000	64.70	-26.8	-80.00	-109.79	-2.00	-153.89
WRQM321	2	35	59	23.2	N	86	34	37.1	W	30.9	122.8	470.0000	66.29	-26.8	-80.00	-111.39	-2.00	-153.90
WRJV620	3	36	10	26.2	N	86	31	4.6	W	31.5	83.2	470.0000	66.45	-26.8	-80.00	-111.56	-2.00	-153.91
WNFL596	2	36	8	30.2	N	86	30	45	W	31.8	89.7	470.0000	66.51	-26.8	-80.00	-111.64	-2.00	-153.93
WQHE537	21	36	19	7	N	86	36	2	W	30.9	50.2	470.0000	66.22	-26.8	-80.00	-111.39	-2.00	-153.97
WQHE537	21	36	19	7	N	86	36	2	W	30.9	50.2	470.0000	66.22	-26.8	-80.00	-111.39	-2.00	-153.97
WQHE537	21	36	19	7	N	86	36	2	W	30.9	50.2	470.0000	66.22	-26.8	-80.00	-111.39	-2.00	-153.97
WQHE537	21	36	19	7	N	86	36	2	W	30.9	50.2	470.0000	66.22	-26.8	-80.00	-111.39	-2.00	-153.97
WQFA564	2	36	10	8	N	86	30	50	W	31.8	84.3	470.0000	66.46	-26.8	-80.00	-111.64	-2.00	-153.98
WQFA564	2	36	10	8	N	86	30	50	W	31.8	84.3	470.0000	66.46	-26.8	-80.00	-111.64	-2.00	-153.98
WQYG691	2	35	59	31	N	86	34	14	W	31.3	121.9	470.0000	66.30	-26.8	-80.00	-111.50	-2.00	-154.00
WQZV454	1	35	54	32.9	N	86	49	38.8	W	25.9	172.4	470.0000	64.62	-26.8	-80.00	-109.86	-2.00	-154.04
WQWP249	14	36	12	0.2	N	86	31	7	W	31.9	78.0	470.0000	66.43	-26.8	-80.00	-111.67	-2.00	-154.04
WQVB529	1	35	54	54.3	N	86	50	51.1	W	25.1	176.3	470.0000	64.28	-26.8	-80.00	-109.59	-2.00	-154.11
WQVB529	1	35	54	54.3	N	86	50	51.1	W	25.1	176.3	470.0000	64.28	-26.8	-80.00	-109.59	-2.00	-154.11
WQVB529	1	35	54	54.3	N	86	50	51.1	W	25.1	176.3	470.0000	64.28	-26.8	-80.00	-109.59	-2.00	-154.11
WQTL947	3	36	11	3.2	N	86	30	35.4	W	32.4	81.3	470.0000	66.44	-26.8	-80.00	-111.80	-2.00	-154.16
WQTL947	3	36	11	3.2	N	86	30	35.4	W	32.4	81.3	470.0000	66.44	-26.8	-80.00	-111.80	-2.00	-154.16
WQTL947	2	36	11	3.2	N	86	30	35.4	W	32.4	81.3	470.0000	66.44	-26.8	-80.00	-111.80	-2.00	-154.16
WQTL947	3	36	11	3.2	N	86	30	35.4	W	32.4	81.3	470.0000	66.44	-26.8	-80.00	-111.80	-2.00	-154.16
WRBW969	1	36	12	35.7	N	86	30	50.9	W	32.5	76.2	470.0000	66.42	-26.8	-80.00	-111.83	-2.00	-154.21
WQZ917	1	35	54	10.8	N	86	49	36.5	W	26.6	172.5	470.0000	64.62	-26.8	-80.00	-110.09	-2.00	-154.27
WRHW495	2	36	10	11.7	N	86	30	5	W	32.9	84.2	470.0000	66.46	-26.8	-80.00	-111.94	-2.00	-154.27
WRDK577	2	35	56	5.9	N	86	36	50.9	W	32.2	135.3	470.0000	66.16	-26.8	-80.00	-111.75	-2.00	-154.39
WRKC593	1	36	23	25.1	N	86	46	25.5	W	28.9	16.5	470.0000	65.21	-26.8	-80.00	-110.81	-2.00	-154.40
WRKC593	1	36	23	25.1	N	86	46	25.5	W	28.9	16.5	470.0000	65.21	-26.8	-80.00	-110.81	-2.00	-154.40
WPZH577	3	35	58	31.2	N	86	33	54	W	32.7	124.2	470.0000	66.28	-26.8	-80.00	-111.88	-2.00	-154.40
WPZH577	3	35	58	31.2	N	86	33	54	W	32.7	124.2	470.0000	66.28	-26.8	-80.00	-111.88	-2.00	-154.40
WQJQ877	136	36	13	53.2	N	86	30	46.2	W	33.3	72.2	470.0000	66.39	-26.8	-80.00	-112.04	-2.00	-154.45
WQJQ877	136	36	13	53.2	N	86	30	46.2	W	33.3	72.2	470.0000	66.39	-26.8	-80.00	-112.04	-2.00	-154.45
WQJQ877	136	36	13	53.2	N	86	30	46.2	W	33.3	72.2	470.0000	66.39	-26.8	-80.00	-112.04	-2.00	-154.45
WQJQ877	136	36	13	53.2	N	86	30	46.2	W	33.3	72.2	470.0000	66.39	-26.8	-80.00	-112.04	-2.00	-154.45
WQJQ877	136	36	13	53.2	N	86	30	46.2	W	33.3	72.2	470.0000	66.39	-26.8	-80.00	-112.04	-2.00	-154.45
WQHE537	33	35	58	57	N	86	33	11	W	33.2	122.0	470.0000	66.29	-26.8	-80.00	-112.01	-2.00	-154.53
WQHE537	33	35	58	57	N	86	33	11	W	33.2	122.0	470.0000	66.29	-26.8	-80.00	-112.01	-2.00	-154.53
WQHE537	33	35	58	57	N	86	33	11	W	33.2	122.0	470.0000	66.29	-26.8	-80.00	-112.01	-2.00	-154.53
WQHE537	33	35	58	57	N	86	33	11	W	33.2	122.0	470.0000	66.29	-26.8	-80.00	-112.01	-2.00	-154.53
WQHE537	33	35	58	57	N	86	33	11	W	33.2	122.0	470.0000	66.29	-26.8	-80.00	-112.01	-2.00	-154.53
WQIV611	2	36	19	16	N	86	34	10.9	W	33.3	52.8	470.0000	66.24	-26.8	-80.00	-112.04	-2.00	-154.60
WRUN423	7	35	54	48.7	N	86	52	29.3	W	25.2	181.9	470.0000	63.82	-26.8	-80.00	-109.62	-2.00	-154.60
WQVR676	1	36	0	15.5	N	86	31	35.1	W	34.1	116.4	470.0000	66.34	-26.8	-80.00	-112.25	-2.00	-154.71
WQVR676	1	36	0	15.5	N	86	31	35.1	W	34.1	116.4	470.0000	66.34	-26.8	-80.00	-112.25	-2.00	-154.71
WQRE664	1	36	1	2.2	N	86	31	0	W	34.3	113.6	470.0000	66.36	-26.8	-80.00	-112.30	-2.00	-154.74
WQRE664	1	36	1	2.2	N	86	31	0	W	34.3	113.6	470.0000	66.36	-26.8	-80.00	-112.30	-2.00	-154.74
WQRE664	1	36	1	2.2	N	86	31	0	W	34.3	113.6	470.0000	66.36	-26.8	-80.00	-112.30	-2.00	-154.74
WQRE664	1	36	1	2.2	N	86	31	0	W	34.3	113.6	470.0000	66.36	-26.8	-80.00	-112.30	-2.00	-154.74
WQRE664	1	36	1	2.2	N	86	31	0	W	34.3	113.6	470.0000	66.36	-26.8	-80.00	-112.30	-2.00	-154.74
WFS750	8	35	57	53	N	86	33	24	W	34	125.1	470.0000	66.27	-26.8	-80.00	-112.22	-2.00	-154.75
WFS750	8	35	57	53	N	86	33	24	W	34	125.1	470.0000	66.27	-26.8	-80.00	-112.22	-2.00	-154.75
WNYT793	1	35	54	59.2	N	86	53	3	W	25	183.8	470.0000	63.59	-26.8	-80.00	-109.55	-2.00	-154.77
WNYT793	1	35	54	59.2	N	86	53	3	W	25	183.8	470.0000	63.59	-26.8	-80.00	-109.55	-2.00	-154.77
WQQP235	10	35	57	43	N	86	33	24.1	W	34.2	125.5	470.0000	66.27	-26.8	-80.00	-112.27	-2.00	-154.80
WQRM808	1	35	54	53.8	N	86	52	49.5	W	25.1	183.0	470.0000	63.59	-26.8	-80.00	-109.59	-2.00	-154.80
WQRM808	1	35	54	53.8	N	86	52	49.5	W	25.1	183.0	470.0000	63.59	-26.8	-80.00	-109.59	-2.00	-154.80
WRMA455	3	36	11	34.1	N	86	28	51	W	35.1	80.4	470.0000	66.44	-26.8	-80.00	-112.50	-2.00	-154.86
WRMA455	3	36	11	34.1	N	86	28	51	W	35.1	80.4	470.0000	66.44	-26.8	-80.00	-112.50	-2.00	-154.86
WRMA455	3	36	11	34.1	N	86	28	51	W	35.1	80.4	470.0000	66.44	-26.8	-80.00	-112.50	-2.00	-154.86
WRMA455	3	36	11	34.1	N	86	28	51	W	35.1	80.4	470.0000	66.44	-26.8	-80.00	-112.50	-2.00	-154.86
WRMA455	3	36	11	34														

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WRPR963	1	36	11	4.9	N	86	28	32.2	W	35.4	82.0	470.0000	66.44	-26.8	-80.00	-112.57	-2.00	-154.93
WRPR963	1	36	11	4.9	N	86	28	32.2	W	35.4	82.0	470.0000	66.44	-26.8	-80.00	-112.57	-2.00	-154.93
WRPR963	1	36	11	4.9	N	86	28	32.2	W	35.4	82.0	470.0000	66.44	-26.8	-80.00	-112.57	-2.00	-154.93
WRCX694	2	35	54	15.9	N	86	52	14.9	W	26.2	181.0	470.0000	63.82	-26.8	-80.00	-109.96	-2.00	-154.94
WRCX694	2	35	54	15.9	N	86	52	14.9	W	26.2	181.0	470.0000	63.82	-26.8	-80.00	-109.96	-2.00	-154.94
WRAK454	2	35	57	40	N	86	32	54.5	W	34.8	124.9	470.0000	66.28	-26.8	-80.00	-112.42	-2.00	-154.94
WRFM502	2	35	55	20.5	N	86	53	54.5	W	24.4	187.0	470.0000	63.11	-26.8	-80.00	-109.34	-2.00	-155.03
WRFM502	2	35	55	20.5	N	86	53	54.5	W	24.4	187.0	470.0000	63.11	-26.8	-80.00	-109.34	-2.00	-155.03
WQWX937	3	35	54	2.8	N	86	52	22.7	W	26.6	181.4	470.0000	63.82	-26.8	-80.00	-110.09	-2.00	-155.07
WRDK577	3	35	55	37.6	N	86	34	40.7	W	35.1	132.5	470.0000	66.20	-26.8	-80.00	-112.50	-2.00	-155.09
WRVW871	1	35	55	54.2	N	86	54	41	W	23.6	190.1	470.0000	62.75	-26.8	-80.00	-109.05	-2.00	-155.10
WRUV661	1	35	55	54.2	N	86	54	39.5	W	23.6	190.0	470.0000	62.75	-26.8	-80.00	-109.05	-2.00	-155.10
WPLJ752	3	36	24	44.2	N	86	43	48	W	32.5	21.9	470.0000	65.53	-26.8	-80.00	-111.83	-2.00	-155.10
WPLJ752	3	36	24	44.2	N	86	43	48	W	32.5	21.9	470.0000	65.53	-26.8	-80.00	-111.83	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	39.9	N	86	51	53	W	27.3	179.8	470.0000	64.01	-26.8	-80.00	-110.32	-2.00	-155.10
WQTS498	1	35	53	3														

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 KHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Sorted	
																		Calculated interfering signal field strength (dBu)	
WZC700	12	35	53	10	N		86	52	54	W	28.3	182.9	470.0000	63.70	-26.8	-80.00	-110.63	-2.00	-155.73
WZC700	12	35	53	10	N		86	52	54	W	28.3	182.9	470.0000	63.70	-26.8	-80.00	-110.63	-2.00	-155.73
WRUN424	11	35	52	24.9	N		86	51	17.7	W	29.7	178.2	470.0000	64.10	-26.8	-80.00	-111.05	-2.00	-155.75
WRCN453	1	35	57	31.1	N		86	29	48.8	W	38.9	121.3	470.0000	66.30	-26.8	-80.00	-113.39	-2.00	-155.89
WRCN453	1	35	57	31.1	N		86	29	48.8	W	38.9	121.3	470.0000	66.30	-26.8	-80.00	-113.39	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.00	-155.89
WQQT469	2	35	57	59.7	N		86	29	21.2	W	39	119.7	470.0000	66.32	-26.8	-80.00	-113.41	-2.0	

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

SORTED																		
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)
WRAV764	3	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAV764	2	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAV764	2	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAV764	2	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAV764	3	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAT830	1	35	57	6.7	N	86	29	6.3	W	40.2	121.4	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAV764	2	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRAV764	2	35	57	5.5	N	86	29	7.5	W	40.2	121.5	470.0000	66.30	-26.8	-80.00	-113.68	-2.00	-156.18
WRU948	1	35	50	13.6	N	86	47	13.7	W	34.4	168.2	470.0000	64.93	-26.8	-80.00	-112.32	-2.00	-156.19
WRD903	2	35	56	49.3	N	86	29	15	W	40.3	122.3	470.0000	66.29	-26.8	-80.00	-113.70	-2.00	-156.21
WREI796	1	36	7	36.8	N	86	24	23.5	W	41.3	92.0	470.0000	66.50	-26.8	-80.00	-113.91	-2.00	-156.21
WREI796	1	36	7	36.8	N	86	24	23.5	W	41.3	92.0	470.0000	66.50	-26.8	-80.00	-113.91	-2.00	-156.21
WREI796	1	36	7	36.8	N	86	24	23.5	W	41.3	92.0	470.0000	66.50	-26.8	-80.00	-113.91	-2.00	-156.21
WQWN435	2	36	7	45.7	N	86	24	20.8	W	41.4	91.6	470.0000	66.51	-26.8	-80.00	-113.93	-2.00	-156.22
WQWN435	2	36	7	45.7	N	86	24	20.8	W	41.4	91.6	470.0000	66.51	-26.8	-80.00	-113.93	-2.00	-156.22
WRAW426	2	35	57	38.3	N	86	28	12.3	W	40.9	119.3	470.0000	66.32	-26.8	-80.00	-113.83	-2.00	-156.31
WRPH252	2	35	53	44.4	N	86	55	2.1	W	27.6	189.7	470.0000	62.87	-26.8	-80.00	-110.41	-2.00	-156.34
WRPH252	2	35	53	44.4	N	86	55	2.1	W	27.6	189.7	470.0000	62.87	-26.8	-80.00	-110.41	-2.00	-156.34
WRFA329	2	35	49	43.6	N	86	40	45.5	W	38.5	154.2	470.0000	65.73	-26.8	-80.00	-113.30	-2.00	-156.37
WRUL218	2	35	49	43.5	N	86	40	40.6	W	38.5	154.0	470.0000	65.73	-26.8	-80.00	-113.30	-2.00	-156.37
WRUL218	2	35	49	43.5	N	86	40	40.6	W	38.5	154.0	470.0000	65.73	-26.8	-80.00	-113.30	-2.00	-156.37
WRPG265	4	35	56	28.2	N	86	28	49.7	W	41.2	122.6	470.0000	66.29	-26.8	-80.00	-113.89	-2.00	-156.40
WQUT953	2	36	8	33.2	N	86	23	43.8	W	42.3	89.6	470.0000	66.51	-26.8	-80.00	-114.12	-2.00	-156.41
WQUT953	2	36	8	33.2	N	86	23	43.8	W	42.3	89.6	470.0000	66.51	-26.8	-80.00	-114.12	-2.00	-156.41
WQHE537	8	36	4	47	N	86	57	14	W	10.5	229.5	470.0000	54.38	-26.8	-80.00	-102.02	-2.00	-156.43
WQHE537	8	36	4	47	N	86	57	14	W	10.5	229.5	470.0000	54.38	-26.8	-80.00	-102.02	-2.00	-156.43
WQHE537	8	36	4	47	N	86	57	14	W	10.5	229.5	470.0000	54.38	-26.8	-80.00	-102.02	-2.00	-156.43
WQHE537	8	36	4	47	N	86	57	14	W	10.5	229.5	470.0000	54.38	-26.8	-80.00	-102.02	-2.00	-156.43
WQHE537	8	36	4	47	N	86	57	14	W	10.5	229.5	470.0000	54.38	-26.8	-80.00	-102.02	-2.00	-156.43
WQHE537	8	36	4	47	N	86	57	14	W	10.5	229.5	470.0000	54.38	-26.8	-80.00	-102.02	-2.00	-156.43
WQOY553	2	36	21	43.6	N	86	29	50.9	W	41.2	53.2	470.0000	66.25	-26.8	-80.00	-113.89	-2.00	-156.44
WQOY553	2	36	21	43.6	N	86	29	50.9	W	41.2	53.2	470.0000	66.25	-26.8	-80.00	-113.89	-2.00	-156.44
WQTU294	2	36	9	50.8	N	86	23	41	W	42.4	86.4	470.0000	66.48	-26.8	-80.00	-114.14	-2.00	-156.46
WQTU294	2	36	9	50.8	N	86	23	41	W	42.4	86.4	470.0000	66.48	-26.8	-80.00	-114.14	-2.00	-156.46
WQTU294	2	36	9	50.8	N	86	23	41	W	42.4	86.4	470.0000	66.48	-26.8	-80.00	-114.14	-2.00	-156.46
WRPG260	3	35	53	44.5	N	86	31	18	W	41.2	131.3	470.0000	66.21	-26.8	-80.00	-113.89	-2.00	-156.48
WRJE858	2	36	2	46	N	86	24	37.5	W	42.3	104.3	470.0000	66.42	-26.8	-80.00	-114.12	-2.00	-156.50
WRJE858	2	36	2	46	N	86	24	37.5	W	42.3	104.3	470.0000	66.42	-26.8	-80.00	-114.12	-2.00	-156.50
WRPG235	6	35	52	37.6	N	86	32	40.2	W	41.2	135.3	470.0000	66.16	-26.8	-80.00	-113.89	-2.00	-156.53
WRPG261	5	35	58	30	N	86	26	42.3	W	42.1	115.9	470.0000	66.35	-26.8	-80.00	-114.08	-2.00	-156.53
WQUL355	3	35	49	5.5	N	86	43	56.1	W	37.8	161.5	470.0000	65.41	-26.8	-80.00	-113.14	-2.00	-156.53
WRTC737	2	36	2	45.7	N	86	24	31.5	W	42.5	104.3	470.0000	66.42	-26.8	-80.00	-114.16	-2.00	-156.54
WRDK577	1	35	58	7.2	N	86	26	52	W	42.2	116.9	470.0000	66.34	-26.8	-80.00	-114.10	-2.00	-156.56
WRKN775	3	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRKN775	3	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRKN775	2	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRKN775	3	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRKN775	2	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRFN221	50	36	2	46.6	N	86	24	25.7	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRFN221	50	36	2	46.6	N	86	24	25.7	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRFN221	50	36	2	46.6	N	86	24	25.7	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRFN221	50	36	2	46.6	N	86	24	25.7	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRFN221	50	36	2	46.6	N	86	24	25.7	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRKN775	3	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRKN775	3	36	2	46.5	N	86	24	26	W	42.6	104.2	470.0000	66.42	-26.8	-80.00	-114.18	-2.00	-156.56
WRPG261	6	35	56	23.5	N	86	28	5.4	W	42.2	121.9	470.0000	66.30	-26.8	-80.00	-114.10	-2.00	-156.60
WPFS466	2	36	9	30.2	N	86	23	1	W	43.4	87.3	470.0000	66.49	-26.8	-80.00	-114.34	-2.00	-156.65
WQIE541	4	36	9	27.4	N	86	22	59.1	W	43.5	87.4	470.0000	66.49	-26.8	-80.00	-114.36	-2.00	-156.67
WPPX251	4	36	9	27.4	N	86	22	59.1	W	43.5	87.4	470.0000	66.49	-26.8	-80.00	-114.36	-2.00	-156.67
WQRX548	1	36	0	20.4	N	86	24	55.4	W	43.2	110.2	470.0000	66.38	-26.8	-80.00	-114.30	-2.00	-156.72
WRNQ257	1	36	2	39.6	N	86	23	55.7	W	43.4	1							

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED	
																		Calculated interfering signal strength (dBu)	
WPPX251	5	36	12	17	N	86	22	13	W	45.1	80.8	470.0000	66.44	-26.8	-80.00	-114.68	-2.00	-157.04	
WPJV719	3	36	28	47.2	N	86	40	54	W	41.1	23.6	470.0000	65.61	-26.8	-80.00	-113.87	-2.00	-157.06	
WPQF547	3	36	28	47.2	N	86	40	54	W	41.1	23.6	470.0000	65.61	-26.8	-80.00	-113.87	-2.00	-157.06	
WRPG259	2	35	52	30.3	N	86	29	53.8	W	44.3	131.7	470.0000	66.21	-26.8	-80.00	-114.52	-2.00	-157.11	
WRPH867	3	35	50	35.8	N	86	32	40.7	W	43.9	138.8	470.0000	66.12	-26.8	-80.00	-114.44	-2.00	-157.12	
WQUQ634	1	35	50	26.7	N	86	52	56.1	W	33.3	182.6	470.0000	63.70	-26.8	-80.00	-112.04	-2.00	-157.14	
WQOG410	2	36	22	47.5	N	86	27	38.1	W	45	53.7	470.0000	66.25	-26.8	-80.00	-114.66	-2.00	-157.20	
WRPG261	2	35	53	1.3	N	86	28	53	W	44.9	129.5	470.0000	66.23	-26.8	-80.00	-114.64	-2.00	-157.20	
KOB688	3	36	23	7.5	N	86	27	43.8	W	45.3	52.9	470.0000	66.24	-26.8	-80.00	-114.71	-2.00	-157.27	
WQSJ515	3	36	18	52.3	N	86	24	6.7	W	45.9	65.0	470.0000	66.35	-26.8	-80.00	-114.83	-2.00	-157.28	
WQSJ515	3	36	18	52.3	N	86	24	6.7	W	45.9	65.0	470.0000	66.35	-26.8	-80.00	-114.83	-2.00	-157.28	
WQSJ515	3	36	18	52.3	N	86	24	6.7	W	45.9	65.0	470.0000	66.35	-26.8	-80.00	-114.83	-2.00	-157.28	
WQSJ515	3	36	18	52.3	N	86	24	6.7	W	45.9	65.0	470.0000	66.35	-26.8	-80.00	-114.83	-2.00	-157.28	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WQAZ704	6	35	52	23.3	N	86	28	47.2	W	45.7	130.5	470.0000	66.22	-26.8	-80.00	-114.79	-2.00	-157.37	
WRMQ326	2	35	48	42.9	N	86	50	19.8	W	36.6	176.2	470.0000	64.28	-26.8	-80.00	-112.86	-2.00	-157.38	
WRMQ326	2	35	48	42.9	N	86	50	19.8	W	36.6	176.2	470.0000	64.28	-26.8	-80.00	-112.86	-2.00	-157.38	
WRPG261	3	35	53	49.2	N	86	27	3.7	W	46.1	125.9	470.0000	66.27	-26.8	-80.00	-114.87	-2.00	-157.39	
WRPG261	4	35	53	56.1	N	86	26	42.7	W	46.4	125.3	470.0000	66.27	-26.8	-80.00	-114.92	-2.00	-157.45	
WQRA282	1	36	29	16.6	N	86	47	0	W	39.2	10.8	470.0000	64.78	-26.8	-80.00	-113.46	-2.00	-157.47	
WZX668	3	36	23	25.2	N	86	26	58	W	46.5	53.2	470.0000	66.25	-26.8	-80.00	-114.94	-2.00	-157.49	
WZX668	3	36	23	25.2	N	86	26	58	W	46.5	53.2	470.0000	66.25	-26.8	-80.00	-114.94	-2.00	-157.49	
WQUN240	2	35	50	29.4	N	86	53	54.1	W	33.3	185.1	470.0000	63.35	-26.8	-80.00	-112.04	-2.00	-157.49	
WRPG260	1	35	55	13	N	86	25	19	W	46.9	121.5	470.0000	66.30	-26.8	-80.00	-115.02	-2.00	-157.52	
WRDS994	1	36	5	44.1	N	86	20	7.2	W	48	95.9	470.0000	66.47	-26.8	-80.00	-115.22	-2.00	-157.55	
WREN382	2	35	51	33.4	N	86	28	32.9	W	47	131.6	470.0000	66.21	-26.8	-80.00	-115.03	-2.00	-157.62	
WQQM201	1	36	22	19	N	86	25	21	W	47.4	57.0	470.0000	66.28	-26.8	-80.00	-115.11	-2.00	-157.62	
WQQM201	1	36	22	19	N	86	25	21	W	47.4	57.0	470.0000	66.28	-26.8	-80.00	-115.11	-2.00	-157.62	
WQQM201	1	36	22	19	N	86	25	21	W	47.4	57.0	470.0000	66.28	-26.8	-80.00	-115.11	-2.00	-157.62	
WQYJ361	4	35	53	52.5	N	86	57	29.7	W	28.2	197.2	470.0000	61.75	-26.8	-80.00	-110.60	-2.00	-157.65	
WPPP273	1	36	22	35.2	N	86	25	20	W	47.7	56.5	470.0000	66.28	-26.8	-80.00	-115.16	-2.00	-157.68	
WPPP273	1	36	22	35.2	N	86	25	20	W	47.7	56.5	470.0000	66.28	-26.8	-80.00	-115.16	-2.00	-157.68	
WPPP273	1	36	22	35.2	N	86	25	20	W	47.7	56.5	470.0000	66.28	-26.8	-80.00	-115.16	-2.00	-157.68	
WRPG259	6	35	52	16.9	N	86	27	24.4	W	47.5	129.1	470.0000	66.23	-26.8	-80.00	-115.13	-2.00	-157.69	
WRFLU362	2	36	7	58	N	86	19	12.3	W	49.1	90.9	470.0000	66.52	-26.8	-80.00	-115.41	-2.00	-157.69	
WPRA704	1	36	10	44.2	N	86	19	32.1	W	48.8	84.8	470.0000	66.46	-26.8	-80.00	-115.36	-2.00	-157.70	
WPRA704	1	36	10	44.2	N	86	19	32.1	W	48.8	84.8	470.0000	66.46	-26.8	-80.00	-115.36	-2.00	-157.70	
WPRA704	1	36	10	44.2	N	86	19	32.1	W	48.8	84.8	470.0000	66.46	-26.8	-80.00	-115.36	-2.00	-157.70	
WPRA704	1	36	10	44.2	N	86	19	32.1	W	48.8	84.8	470.0000	66.46	-26.8	-80.00	-115.36	-2.00	-157.70	
WRPG265	6	35	47	58.2	N	86	34	3.6	W	46.4	144.7	470.0000	66.02	-26.8	-80.00	-114.92	-2.00	-157.70	
WQOB999	14	36	11	9.3	N	86	19	33.4	W	48.8	83.9	470.0000	66.45	-26.8	-80.00	-115.36	-2.00	-157.71	
WQOB999	14	36	11	9.3	N	86	19	33.4	W	48.8	83.9	470.0000	66.45	-26.8	-80.00	-115.36	-2.00	-157.71	
WQHE537	28	36	11	12	N	86	19	33	W	48.8	83.8	470.0000	66.45	-26.8	-80.00	-115.36	-2.00	-157.71	
WQHE537	28	36	11	12	N	86	19	33	W	48.8	83.8	470.0000	66.45	-26.8	-80.00	-115.36	-2.00	-157.71	
WQHE537	28	36	11	12	N	86	19	33	W	48.8	83.8	470.0000	66.45	-26.8	-80.00	-115.36	-2.00	-157.71	
WQHE537	28	36	11	12	N	86	19	33	W	48.8	83.8	470.0000	66.45	-26.8	-80.00	-115.36	-2.00	-157.71	
WQHE537	28	36	11	12	N	86	19	33	W	48.8	83.8	470.0000							

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

																		SORTED
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 KHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)
WRBU895	2	36	13	43.7 N		86	19	49.1 W		49.1	78.3	470.0000	66.43	-26.8	-80.00	-115.41	-2.00	-157.79
WQWB779	2	36	13	12.2 N		86	19	40 W		49.2	79.5	470.0000	66.43	-26.8	-80.00	-115.43	-2.00	-157.80
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	470.0000	66.27	-26.8	-80.00	-115.29	-2.00	-157.81
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	470.0000	66.27	-26.8	-80.00	-115.29	-2.00	-157.81
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	470.0000	66.27	-26.8	-80.00	-115.29	-2.00	-157.81
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	470.0000	66.27	-26.8	-80.00	-115.29	-2.00	-157.81
WQUL931	1	35	53	5.8 N		86	25	51 W		48.4	125.9	470.0000	66.27	-26.8	-80.00	-115.29	-2.00	-157.81
WVRF703	1	36	13	54 N		86	19	46 W		49.3	78.0	470.0000	66.43	-26.8	-80.00	-115.45	-2.00	-157.82
WROH404	1	36	11	47.7 N		86	19	14.5 W		49.4	82.6	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.82
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
WQAZ704	5	36	12	50.2 N		86	19	24.5 W		49.4	80.4	470.0000	66.44	-26.8	-80.00	-115.47	-2.00	-157.83
W																		

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED Calculated interfering signal field strength (dBu)
KNNF400	2	36	28	42.2	N	86	53	14	W	37.5	357.0	470.0000	63.59	-26.8	-80.00	-113.07	-2.00	-158.29
KNNF400	2	36	28	42.2	N	86	53	14	W	37.5	357.0	470.0000	63.59	-26.8	-80.00	-113.07	-2.00	-158.29
WQOE521	1	36	28	2	N	86	28	37	W	50.3	43.7	470.0000	66.14	-26.8	-80.00	-115.62	-2.00	-158.29
WQOE521	1	36	28	2	N	86	28	37	W	50.3	43.7	470.0000	66.14	-26.8	-80.00	-115.62	-2.00	-158.29
WPNY570	2	36	28	2.2	N	86	28	35	W	50.3	43.7	470.0000	66.14	-26.8	-80.00	-115.62	-2.00	-158.29
WPEI389	6	36	28	4.2	N	86	28	37	W	50.3	43.6	470.0000	66.14	-26.8	-80.00	-115.62	-2.00	-158.29
WZX668	6	36	28	2.1	N	86	28	36.9	W	50.3	43.7	470.0000	66.14	-26.8	-80.00	-115.62	-2.00	-158.29
WZX668	6	36	28	2.1	N	86	28	36.9	W	50.3	43.7	470.0000	66.14	-26.8	-80.00	-115.62	-2.00	-158.29
WRPG265	3	35	48	31.4	N	86	29	6.1	W	50.4	137.0	470.0000	66.14	-26.8	-80.00	-115.64	-2.00	-158.31
WQWS708	3	36	10	56.4	N	86	17	5.9	W	52.4	84.8	470.0000	66.46	-26.8	-80.00	-115.98	-2.00	-158.32
WQWS708	3	36	10	56.4	N	86	17	5.9	W	52.4	84.8	470.0000	66.46	-26.8	-80.00	-115.98	-2.00	-158.32
WQUA901	2	36	29	37.7	N	86	51	33.8	W	39.2	0.8	470.0000	63.93	-26.8	-80.00	-113.46	-2.00	-158.33
WQUA901	2	36	29	37.7	N	86	51	33.8	W	39.2	0.8	470.0000	63.93	-26.8	-80.00	-113.46	-2.00	-158.33
WQES411	2	36	12	47.4	N	86	17	22.2	W	52.4	81.0	470.0000	66.44	-26.8	-80.00	-115.98	-2.00	-158.34
WQES411	3	36	12	47.4	N	86	17	22.2	W	52.4	81.0	470.0000	66.44	-26.8	-80.00	-115.98	-2.00	-158.34
KSZ237	3	36	29	26.5	N	86	52	2.6	W	38.8	359.8	470.0000	63.82	-26.8	-80.00	-113.37	-2.00	-158.35
KSZ237	3	36	29	26.5	N	86	52	2.6	W	38.8	359.8	470.0000	63.82	-26.8	-80.00	-113.37	-2.00	-158.35
WQEK235	3	36	29	26.5	N	86	52	2.6	W	38.8	359.8	470.0000	63.82	-26.8	-80.00	-113.37	-2.00	-158.35
KSZ237	3	36	29	26.5	N	86	52	2.6	W	38.8	359.8	470.0000	63.82	-26.8	-80.00	-113.37	-2.00	-158.35
WQEK235	3	36	29	26.5	N	86	52	2.6	W	38.8	359.8	470.0000	63.82	-26.8	-80.00	-113.37	-2.00	-158.35
WQEK235	3	36	29	26.5	N	86	52	2.6	W	38.8	359.8	470.0000	63.82	-26.8	-80.00	-113.37	-2.00	-158.35
WQFA578	1	35	50	51.4	N	86	25	30.9	W	51.3	129.3	470.0000	66.23	-26.8	-80.00	-115.79	-2.00	-158.36
WQFA578	1	35	50	51.4	N	86	25	30.9	W	51.3	129.3	470.0000	66.23	-26.8	-80.00	-115.79	-2.00	-158.36
WRWV306	2	35	51	35.8	N	86	24	27.2	W	51.7	127.0	470.0000	66.25	-26.8	-80.00	-115.86	-2.00	-158.41
WQYK415	1	35	50	41.8	N	86	25	19	W	51.7	129.4	470.0000	66.23	-26.8	-80.00	-115.86	-2.00	-158.43
WQYK415	1	35	50	41.8	N	86	25	19	W	51.7	129.4	470.0000	66.23	-26.8	-80.00	-115.86	-2.00	-158.43
WRF557	3	36	28	36.2	N	86	28	37	W	51.1	42.9	470.0000	66.12	-26.8	-80.00	-115.76	-2.00	-158.44
WQSC638	1	35	51	31	N	86	24	18.1	W	52	127.0	470.0000	66.25	-26.8	-80.00	-115.91	-2.00	-158.46
WQHE537	5	35	50	47	N	86	25	4	W	51.9	129.0	470.0000	66.23	-26.8	-80.00	-115.90	-2.00	-158.46
WQHE537	5	35	50	47	N	86	25	4	W	51.9	129.0	470.0000	66.23	-26.8	-80.00	-115.90	-2.00	-158.46
WQHE537	5	35	50	47	N	86	25	4	W	51.9	129.0	470.0000	66.23	-26.8	-80.00	-115.90	-2.00	-158.46
WQHE537	5	35	50	47	N	86	25	4	W	51.9	129.0	470.0000	66.23	-26.8	-80.00	-115.90	-2.00	-158.46
WRUA813	1	35	52	40	N	86	23	10	W	52.2	124.0	470.0000	66.28	-26.8	-80.00	-115.95	-2.00	-158.46
WRUA813	1	35	52	40	N	86	23	10	W	52.2	124.0	470.0000	66.28	-26.8	-80.00	-115.95	-2.00	-158.46
WRUA813	1	35	52	40	N	86	23	10	W	52.2	124.0	470.0000	66.28	-26.8	-80.00	-115.95	-2.00	-158.46
WRUA813	1	35	52	40	N	86	23	10	W	52.2	124.0	470.0000	66.28	-26.8	-80.00	-115.95	-2.00	-158.46
WPGY596	1	35	51	5.7	N	86	24	44.1	W	52	128.1	470.0000	66.24	-26.8	-80.00	-115.91	-2.00	-158.47
WQUL987	8	35	51	46	N	86	24	0	W	52.1	126.3	470.0000	66.26	-26.8	-80.00	-115.93	-2.00	-158.47
WQUL987	8	35	51	46	N	86	24	0	W	52.1	126.3	470.0000	66.26	-26.8	-80.00	-115.93	-2.00	-158.47
WQFH798	1	35	50	45	N	86	25	1	W	52	129.0	470.0000	66.23	-26.8	-80.00	-115.91	-2.00	-158.48
WQFH798	1	35	50	45	N	86	25	1	W	52	129.0	470.0000	66.23	-26.8	-80.00	-115.91	-2.00	-158.48
WQIT898	10	35	50	47	N	86	24	58	W	52.1	128.9	470.0000	66.24	-26.8	-80.00	-115.93	-2.00	-158.48
WQIT898	10	35	50	47	N	86	24	58	W	52.1	128.9	470.0000	66.24	-26.8	-80.00	-115.93	-2.00	-158.48
WQIT898	10	35	50	47	N	86	24	58	W	52.1	128.9	470.0000	66.24	-26.8	-80.00	-115.93	-2.00	-158.48
WQIT898	10	35	50	47	N	86	24	58	W	52.1	128.9	470.0000	66.24	-26.8	-80.00	-115.93	-2.00	-158.48
WRMF451	2	35	44	21	N	86	38	34.9	W	48.9	155.8	470.0000	65.69	-26.8	-80.00	-115.38	-2.00	-158.49
WQLQ795	2	36	10	59.3	N	86	16	22.7	W	53.5	84.8	470.0000	66.46	-26.8	-80.00	-116.16	-2.00	-158.50
WPKP981	2	36	30	19	N	86	51	24.1	W	40.4	1.1	470.0000	64.01	-26.8	-80.00	-113.72	-2.00	-158.51
WRVF276	2	35	47	4.3	N	86	30	2.6	W	51.4	140.2	470.0000	66.09	-26.8	-80.00	-115.81	-2.00	-158.52
WRDV217	2	35	46	54.2	N	86	30	19.3	W	51.4	140.8	470.0000	66.09	-26.8	-80.00	-115.81	-2.00	-158.52
WRBV377	3	36	11	7.4	N	86	16	14.7	W	53.7	84.5	470.0000	66.46	-26.8	-80.00	-116.19	-2.00	-158.53
WRBV377	3	36	11	7.4	N	86	16	14.7	W	53.7	84.5	470.0000	66.46	-26.8	-80.00	-116.19	-2.00	-158.53
WRDK577	5	35	44	8.2	N	86	39	2.7	W	49	156.7	470.0000	65.65	-26.8	-80.00	-115.40	-2.00	-158.55
WQTJ508	2	36	29	55.2	N	86	52	11.7	W	39.7	359.4	470.0000	63.82	-26.8	-80.00	-113.57	-2.00	-158.55
WQTJ508	2	36	29	55.2	N	86	52	11.7	W	39.7	359.4	470.0000	63.82	-26.8	-80.00	-113.57	-2.00	-158.55
WQTJ508	2	36	29	55.2	N	86	52	11.7	W	39.7	359.4	470.0000	63.82	-26.8	-80.00	-113.57	-2.00	-158.55
WRVP316	6	35	44	1.3	N	86	41	40.8	W	47.7	161.2	470.0000	65.41	-26.8	-80.00	-115.16	-2.00	-158.55
WQEK235	5	36	32	40.6	N	86	42	20.9	W	47	17.6	470.0000	65.28	-26.8	-80.00	-115.03	-2.00	-158.55
WQEK235	5	36	32	40.6	N	86	42	20.9	W	47	17.6	470.0000	65.28	-26.8	-80.00	-115.03	-2.00	-158.55
WQEK235	5	36	32	40.6	N	86	42	20.9	W	47	17.6	470.0000	65.28	-26.8	-80.00	-115.03	-2.00	-158.55
WRWB395	2	35	53	10.5	N	86	22	15.9	W	52.8	122.3	470.0000	66.29	-26.8	-80.00	-116.04	-2.00	-158.56
KAG384	13	35	44	8.5	N	86	38	50	W	49.1	156.4	470.0000	65.65	-26.8	-80.00	-115.41	-2.00	-158.56
KAG384	13	35	44	8.5	N	86	38	50	W	49.1	156.4	470.0000	65.65	-26.8	-80.00	-115.41	-2.00	-158.56
WQRH501	1	35	48	43.5	N	86	27	7.7	W	52.2	134.4	470.0000	66.18	-26.8	-80.00	-115.95	-2.00	-158.57
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	4	36	30	3	N	86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

																			SORTED
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	
WQTD409	3	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	4	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	3	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	3	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	3	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	3	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WQTD409	3	36	30	3	N		86	52	9	W	39.9	359.5	470.0000	63.82	-26.8	-80.00	-113.61	-2.00	-158.59
WRPH819	2	35	46	7.3	N		86	31	15.6	W	51.7	143.0	470.0000	66.03	-26.8	-80.00	-115.86	-2.00	-158.63
WRNV547	2	36	30	37.1	N		86	51	24.3	W	41	1.1	470.0000	64.01	-26.8	-80.00	-113.85	-2.00	-158.64
WQVG360	1	35	50	4.4	N		86	24	53.6	W	53	129.9	470.0000	66.23	-26.8	-80.00	-116.08	-2.00	-158.65
WQVG360	1	35	50	4.4	N		86	24	53.6	W	53	129.9	470.0000	66.23	-26.8	-80.00	-116.08	-2.00	-158.65
WQVG360	1	35	50	4.4	N		86	24	53.6	W	53	129.9	470.0000	66.23	-26.8	-80.00	-116.08	-2.00	-158.65
WRPH867	2	35	43	44.7	N		86	40	19.7	W	48.9	159.1	470.0000	65.53	-26.8	-80.00	-115.38	-2.00	-158.65
WFS750	9	35	50	9.2	N		86	24	42.5	W	53.1	129.6	470.0000	66.23	-26.8	-80.00	-116.09	-2.00	-158.66
WFS750	9	35	50	9.2	N		86	24	42.5	W	53.1	129.6	470.0000	66.23	-26.8	-80.00	-116.09	-2.00	-158.66
WFS750	9	35	50	9.2	N		86	24	42.5	W	53.1	129.6	470.0000	66.23	-26.8	-80.00	-116.09	-2.00	-158.66
WFS750	9	35	50	9.2	N		86	24	42.5	W	53.1	129.6	470.0000	66.23	-26.8	-80.00	-116.09	-2.00	-158.66
WNBQ788	10	35	50	13.2	N		86	24	27	W	53.3	129.2	470.0000	66.23	-26.8	-80.00	-116.13	-2.00	-158.69
WRV557	1	35	50	15.3	N		86	24	26.4	W	53.3	129.1	470.0000	66.23	-26.8	-80.00	-116.13	-2.00	-158.69
WNBQ788	10	35	50	13.2	N		86	24	27	W	53.3	129.2	470.0000	66.23	-26.8	-80.00	-116.13	-2.00	-158.69
WNBQ788	10	35	50	13.2	N		86	24	27	W	53.3	129.2	470.0000	66.23	-26.8	-80.00	-116.13	-2.00	-158.69
WNBQ788	10	35	50	13.2	N		86	24	27	W	53.3	129.2	470.0000	66.23	-26.8	-80.00	-116.13	-2.00	-158.69
WNBQ788	10	35	50	13.2	N		86	24	27	W	53.3	129.2	470.0000	66.23	-26.8	-80.00	-116.13	-2.00	-158.69
WRNS201	4	35	50	34.5	N		86	23	59.9	W	53.4	128.2	470.0000	66.24	-26.8	-80.00	-116.14	-2.00	-158.70
WQZE593	1	35	50	8	N		86	24	28	W	53.4	129.4	470.0000	66.23	-26.8	-80.00	-116.14	-2.00	-158.71
WRCCK856	4	36	24	42.6	N		86	22	10.8	W	53.8	55.7	470.0000	66.27	-26.8	-80.00	-116.21	-2.00	-158.73
WRCCK856	4	36	24	42.6	N		86	22	10.8	W	53.8	55.7	470.0000	66.27	-26.8	-80.00	-116.21	-2.00	-158.73
WRCCK856	4	36	24	42.6	N		86	22	10.8	W	53.8	55.7	470.0000	66.27	-26.8	-80.00	-116.21	-2.00	-158.73
WRPG264	2	35	43	38.3	N		86	38	34.7	W	50.1	156.4	470.0000	65.65	-26.8	-80.00	-115.59	-2.00	-158.74
WQTM253	2	35	53	9.6	N		86	21	17.8	W	54	121.5	470.0000	66.30	-26.8	-80.00	-116.24	-2.00	-158.74
WQUJ553	5	35	50	44	N		86	23	25.3	W	53.9	127.4	470.0000	66.25	-26.8	-80.00	-116.22	-2.00	-158.77
WSB879	2	35	50	38.2	N		86	23	31	W	53.9	127.6	470.0000	66.25	-26.8	-80.00	-116.22	-2.00	-158.77
WSB879	2	35	50	38.2	N		86	23	31	W	53.9	127.6	470.0000	66.25	-26.8	-80.00	-116.22	-2.00	-158.77
WSB879	2	35	50	38.2	N		86	23	31	W	53.9	127.6	470.0000	66.25	-26.8	-80.00	-116.22	-2.00	-158.77
WSB879	2	35	50	38.2	N		86	23	31	W	53.9	127.6	470.0000	66.25	-26.8	-80.00	-116.22	-2.00	-158.77
WRUN423	8	35	46	19.9	N		86	52	27.7	W	40.9	181.1	470.0000	63.82	-26.8	-80.00	-113.83	-2.00	-158.81
WQVZ577	2	35	49	55.9	N		86	24	7.9	W	54	129.3	470.0000	66.23	-26.8	-80.00	-116.24	-2.00	-158.81
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30	N		86	23	27	W	54.2	127.8	470.0000	66.25	-26.8	-80.00	-116.27	-2.00	-158.82
WQVE464	1	35	50	30</															

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	SORTED	
WQZE593	3	35	44	4.4	N		86	31	15.8	W	54.8	145.4	470.0000	65.99	-26.8	-80.00	-116.37	-2.00	-159.17	
WRP819	5	35	51	32.8	N		86	20	28.6	W	56.7	123.4	470.0000	66.28	-26.8	-80.00	-116.66	-2.00	-159.18	
WQQP235	13	35	44	30	N		86	30	11	W	55.1	143.6	470.0000	66.03	-26.8	-80.00	-116.41	-2.00	-159.18	
WPPC229	2	36	8	55.2	N		86	12	47	W	58.7	89.0	470.0000	66.51	-26.8	-80.00	-116.96	-2.00	-159.25	
WPPC229	2	36	8	55.2	N		86	12	47	W	58.7	89.0	470.0000	66.51	-26.8	-80.00	-116.96	-2.00	-159.25	
WQND532	7	36	8	54	N		86	12	47	W	58.7	89.0	470.0000	66.51	-26.8	-80.00	-116.96	-2.00	-159.25	
WQKG440	4	35	48	7.9	N		86	23	29.9	W	56.9	131.3	470.0000	66.21	-26.8	-80.00	-116.69	-2.00	-159.28	
WQKG440	4	35	48	7.9	N		86	23	29.9	W	56.9	131.3	470.0000	66.21	-26.8	-80.00	-116.69	-2.00	-159.28	
WQKG440	4	35	48	7.9	N		86	23	29.9	W	56.9	131.3	470.0000	66.21	-26.8	-80.00	-116.69	-2.00	-159.28	
WQKG440	4	35	48	7.9	N		86	23	29.9	W	56.9	131.3	470.0000	66.21	-26.8	-80.00	-116.69	-2.00	-159.28	
WQKG440	4	35	48	7.9	N		86	23	29.9	W	56.9	131.3	470.0000	66.21	-26.8	-80.00	-116.69	-2.00	-159.28	
WRPT870	2	36	11	45.2	N		86	58	0.3	W	11	304.0	470.0000	51.94	-26.8	-80.00	-102.42	-2.00	-159.28	
WRPT870	3	36	11	45.2	N		86	58	0.3	W	11	304.0	470.0000	51.94	-26.8	-80.00	-102.42	-2.00	-159.28	
WRPG265	5	35	55	45.3	N		86	16	31.1	W	58.1	113.7	470.0000	66.36	-26.8	-80.00	-116.88	-2.00	-159.31	
WQKG440	2	35	47	58.4	N		86	23	32.7	W	57.1	131.6	470.0000	66.21	-26.8	-80.00	-116.72	-2.00	-159.31	
WQKG440	2	35	47	58.4	N		86	23	32.7	W	57.1	131.6	470.0000	66.21	-26.8	-80.00	-116.72	-2.00	-159.31	
WQKG440	2	35	47	58.4	N		86	23	32.7	W	57.1	131.6	470.0000	66.21	-26.8	-80.00	-116.72	-2.00	-159.31	
WQKG440	2	35	47	58.4	N		86	23	32.7	W	57.1	131.6	470.0000	66.21	-26.8	-80.00	-116.72	-2.00	-159.31	
WVRV557	2	35	52	20.2	N		86	18	49.5	W	58	120.9	470.0000	66.30	-26.8	-80.00	-116.86	-2.00	-159.36	
WQYE381	1	36	35	0.5	N		86	41	22.3	W	51.6	17.7	470.0000	65.28	-26.8	-80.00	-115.84	-2.00	-159.37	
WQYE381	1	36	35	0.5	N		86	41	22.3	W	51.6	17.7	470.0000	65.28	-26.8	-80.00	-115.84	-2.00	-159.37	
WQYE381	1	36	35	0.5	N		86	41	22.3	W	51.6	17.7	470.0000	65.28	-26.8	-80.00	-115.84	-2.00	-159.37	
WQYE381	1	36	35	0.5	N		86	41	22.3	W	51.6	17.7	470.0000	65.28	-26.8	-80.00	-115.84	-2.00	-159.37	
WQYE381	1	36	35	0.5	N		86	41	22.3	W	51.6	17.7	470.0000	65.28	-26.8	-80.00	-115.84	-2.00	-159.37	
WRPG260	5	35	41	34.4	N		86	42	11	W	51.8	163.6	470.0000	65.28	-26.8	-80.00	-115.88	-2.00	-159.40	
WQC857	1	35	49	22	N		86	21	21	W	58	127.5	470.0000	66.25	-26.8	-80.00	-116.86	-2.00	-159.41	
WQC857	1	35	49	22	N		86	21	21	W	58	127.5	470.0000	66.25	-26.8	-80.00	-116.86	-2.00	-159.41	
WRMQ791	3	36	33	7	N		86	29	56.1	W	56.3	35.6	470.0000	65.99	-26.8	-80.00	-116.60	-2.00	-159.41	
WQRW477	2	35	47	53.4	N		86	23	0.8	W	57.8	131.2	470.0000	66.21	-26.8	-80.00	-116.83	-2.00	-159.42	
WQRW477	2	35	47	53.4	N		86	23	0.8	W	57.8	131.2	470.0000	66.21	-26.8	-80.00	-116.83	-2.00	-159.42	
WRDK577	4	35	41	23.2	N		86	38	59.5	W	53.7	158.8	470.0000	65.57	-26.8	-80.00	-116.19	-2.00	-159.42	
WRJ641	5	36	31	47.5	N		86	52	58.8	W	43.2	357.9	470.0000	63.59	-26.8	-80.00	-114.30	-2.00	-159.52	
WRTB332	2	35	47	41.6	N		86	22	2.2	W	59.1	130.5	470.0000	66.22	-26.8	-80.00	-117.02	-2.00	-159.61	
WRTB332	2	35	47	41.6	N		86	22	2.2	W	59.1	130.5	470.0000	66.22	-26.8	-80.00	-117.02	-2.00	-159.61	
WRTB332	2	35	47	41.6	N		86	22	2.2	W	59.1	130.5	470.0000	66.22	-26.8	-80.00	-117.02	-2.00	-159.61	
WQUL987	6	35	45	51.8	N		86	24	16.2	W	58.9	135.1	470.0000	66.16	-26.8	-80.00	-116.99	-2.00	-159.63	
WQUL987	6	35	45	51.8	N		86	24	16.2	W	58.9	135.1	470.0000	66.16	-26.8	-80.00	-116.99	-2.00	-159.63	
WQZE593	6	35	46	8.2	N		86	23	50	W	59.1	134.3	470.0000	66.18	-26.8	-80.00	-117.02	-2.00	-159.64	
WRPG235	2	35	46	7.7	N		86	23	48.3	W	59.1	134.3	470.0000	66.18	-26.8	-80.00	-117.02	-2.00	-159.64	
WVRB622	2	36	35	40.1	N		86	35	36.8	W	55.9	25.7	470.0000	65.69	-26.8	-80.00	-116.54	-2.00	-159.65	
WRCR421	1	35	46	10.4	N		86	55	34.3	W	41.6	187.5	470.0000	63.11	-26.8	-80.00	-113.97	-2.00	-159.66	
WRPG235	1	35	46	7.4	N		86	23	44.7	W	59.2	134.2	470.0000	66.18	-26.8	-80.00	-117.04	-2.00	-159.66	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WNBQ788	11	35	46	1.2	N		86	23	38	W	59.4	134.3	470.0000	66.18	-26.8	-80.00	-117.07	-2.00	-159.69	
WQWP615	2	35	44	37.9	N		86	53	32.6	W	44.1	183.1	470.0000	63.59	-26.8	-80.00	-114.48	-2.00	-159.70	
WQQP235	7	35	45	59.4	N		86	23	33.3	W	59.5	134.2	470.0000	66.18	-26.8	-80.00	-117.08	-2.00	-159.70	
WQQP235	7	35	45	59.4	N		86	23	33.3	W	59.5	134.2	470.0000	66.18	-26.8	-80.00	-117.08	-2.00	-159.70	
WQQP235	7	35	45	59.4	N		86	23	33.3	W	59.5	134.2	470.0000	66.18	-26.8	-80.00	-117.08	-2.00	-159.70	
WQQP235	7	35	45	59.4	N		86	23	33.3	W	59.5	134.2	470.0000	66.18	-26.8	-80.00	-117.08	-2.00	-159.70	
WQQP235	7	35	45	59.4	N		86	23	33.3	W	59.5	134.2	470.0000	66.18	-26.8	-80.00	-117.08	-2.00	-159.70	
WQQP235	7	35	45	59.4	N		86	23	33.3	W	59.5	134.2	470.0000	66.18	-26.8	-80.00				

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

																			Sorted
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 KHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
WQQW941	1	35	46	49.3	N	86	21	43	W	60.5	131.3	470.0000	66.21	-26.8	-80.00	-117.23	-2.00	-159.82	
KNIV993	4	36	35	14.4	N	86	31	13.4	W	58.4	31.8	470.0000	65.90	-26.8	-80.00	-116.92	-2.00	-159.82	
KNIV993	4	36	35	14.4	N	86	31	13.4	W	58.4	31.8	470.0000	65.90	-26.8	-80.00	-116.92	-2.00	-159.82	
KNIV993	4	36	35	14.4	N	86	31	13.4	W	58.4	31.8	470.0000	65.90	-26.8	-80.00	-116.92	-2.00	-159.82	
WQWL921	2	35	46	52.7	N	86	21	35.1	W	60.6	131.1	470.0000	66.21	-26.8	-80.00	-117.24	-2.00	-159.83	
WQYJ931	8	36	35	54.2	N	86	31	48.2	W	59	30.5	470.0000	65.87	-26.8	-80.00	-117.01	-2.00	-159.94	
WQYJ931	8	36	35	54.2	N	86	31	48.2	W	59	30.5	470.0000	65.87	-26.8	-80.00	-117.01	-2.00	-159.94	
WQQW941	3	35	46	47.6	N	86	20	58.2	W	61.4	130.7	470.0000	66.22	-26.8	-80.00	-117.36	-2.00	-159.94	
WQQW941	3	35	46	47.6	N	86	20	58.2	W	61.4	130.7	470.0000	66.22	-26.8	-80.00	-117.36	-2.00	-159.94	
WQQW941	3	35	46	47.6	N	86	20	58.2	W	61.4	130.7	470.0000	66.22	-26.8	-80.00	-117.36	-2.00	-159.94	
WQQW941	3	35	46	47.6	N	86	20	58.2	W	61.4	130.7	470.0000	66.22	-26.8	-80.00	-117.36	-2.00	-159.94	
WQQW941	3	35	46	47.6	N	86	20	58.2	W	61.4	130.7	470.0000	66.22	-26.8	-80.00	-117.36	-2.00	-159.94	
WRU2687	1	35	44	58.2	N	86	55	14.8	W	43.7	186.5	470.0000	63.23	-26.8	-80.00	-114.40	-2.00	-159.97	
WRU2687	1	35	44	58.2	N	86	55	14.8	W	43.7	186.5	470.0000	63.23	-26.8	-80.00	-114.40	-2.00	-159.97	
WRU2687	1	35	44	58.2	N	86	55	14.8	W	43.7	186.5	470.0000	63.23	-26.8	-80.00	-114.40	-2.00	-159.97	
WRJ2352	4	35	43	51.2	N	86	24	38.9	W	61.3	137.9	470.0000	66.14	-26.8	-80.00	-117.34	-2.00	-160.01	
WQTK893	1	36	36	5	N	86	31	32	W	59.5	30.6	470.0000	65.87	-26.8	-80.00	-117.08	-2.00	-160.01	
WQNZ346	5	36	4	25.4	N	86	9	41.5	W	63.8	96.5	470.0000	66.46	-26.8	-80.00	-117.69	-2.00	-160.03	
WQVK663	2	36	36	7.1	N	86	31	20.7	W	59.7	30.8	470.0000	65.87	-26.8	-80.00	-117.11	-2.00	-160.04	
WQVK663	2	36	36	7.1	N	86	31	20.7	W	59.7	30.8	470.0000	65.87	-26.8	-80.00	-117.11	-2.00	-160.04	
WQVK663	2	36	36	7.1	N	86	31	20.7	W	59.7	30.8	470.0000	65.87	-26.8	-80.00	-117.11	-2.00	-160.04	
WQVK663	2	36	36	7.1	N	86	31	20.7	W	59.7	30.8	470.0000	65.87	-26.8	-80.00	-117.11	-2.00	-160.04	
WQVK663	2	36	36	7.1	N	86	31	20.7	W	59.7	30.8	470.0000	65.87	-26.8	-80.00	-117.11	-2.00	-160.04	
WPMA747	2	35	45	4.2	N	86	55	47	W	43.6	187.6	470.0000	63.11	-26.8	-80.00	-114.38	-2.00	-160.07	
WQTU282	1	36	36	16.3	N	86	31	14.3	W	60	30.8	470.0000	65.87	-26.8	-80.00	-117.15	-2.00	-160.08	
WQEG320	2	35	49	32	N	86	16	0	W	64.3	122.9	470.0000	66.29	-26.8	-80.00	-117.76	-2.00	-160.27	
WQEG320	2	35	49	32	N	86	16	0	W	64.3	122.9	470.0000	66.29	-26.8	-80.00	-117.76	-2.00	-160.27	
WQUK369	2	35	44	1.9	N	86	55	7	W	45.4	186.0	470.0000	63.23	-26.8	-80.00	-114.73	-2.00	-160.30	
WRPG259	3	35	45	29.6	N	86	20	6.1	W	64	131.5	470.0000	66.21	-26.8	-80.00	-117.72	-2.00	-160.30	
WRMZ209	1	35	38	33.1	N	86	38	43.6	W	58.8	160.2	470.0000	65.47	-26.8	-80.00	-116.98	-2.00	-160.31	
WNVK978	3	35	38	50.2	N	86	34	40	W	60.6	154.6	470.0000	65.73	-26.8	-80.00	-117.24	-2.00	-160.31	
WQHE537	32	35	44	48	N	86	56	8	W	44.2	188.2	470.0000	62.99	-26.8	-80.00	-114.50	-2.00	-160.31	
WQHE537	32	35	44	48	N	86	56	8	W	44.2	188.2	470.0000	62.99	-26.8	-80.00	-114.50	-2.00	-160.31	
WQHE537	32	35	44	48	N	86	56	8	W	44.2	188.2	470.0000	62.99	-26.8	-80.00	-114.50	-2.00	-160.31	
WQHE537	32	35	44	48	N	86	56	8	W	44.2	188.2	470.0000	62.99	-26.8	-80.00	-114.50	-2.00	-160.31	
WQHE537	32	35	44	48	N	86	56	8	W	44.2	188.2	470.0000	62.99	-26.8	-80.00	-114.50	-2.00	-160.31	
WRPH867	4	35	41	59.3	N	86	25	9.3	W	63.4	140.5	470.0000	66.09	-26.8	-80.00	-117.63	-2.00	-160.34	
WRBK816	1	36	33	8	N	86	54	51.5	W	45.9	354.6	470.0000	63.23	-26.8	-80.00	-114.83	-2.00	-160.40	
WRBK816	1	36	33	8	N	86	54	51.5	W	45.9	354.6	470.0000	63.23	-26.8	-80.00	-114.83	-2.00	-160.40	
WRPG262	1	35	56	18.4	N	86	10	33.7	W	66.1	109.7	470.0000	66.39	-26.8	-80.00	-118.00	-2.00	-160.41	
WQLF442	3	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQLF442	2	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQLF442	3	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQLF442	3	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQLF442	2	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQLF442	3	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQLF442	2	36	38	22.7	N	86	35	3.6	W	60.8	24.3	470.0000	65.65	-26.8	-80.00	-117.27	-2.00	-160.42	
WQCY203	2	35	38	12.2	N	86	41	52	W	57.9	164.9	470.0000	65.21	-26.8	-80.00	-116.85	-2.00	-160.44	
WQZJ443	2	36	38	27.4	N	86	33	42.4	W	61.8	26.0	470.0000	65.73	-26.8	-80.00	-117.41	-2.00	-160.48	
WRKB242	2	36	38	27.5	N	86	33	42.5	W	61.8	26.0	470.0000	65.73	-26.8	-80.00	-117.41	-2.00	-160.48	
WQZJ443	2	36	38	27.4	N	86	33	42.4	W	61.8	26.0	470.0000	65.73	-26.8	-80.00	-117.41	-2.00	-160.48	
WRKB242	2	36	38	27.5	N	86	33	42.5	W	61.8	26.0	470.0000	65.73	-26.8	-80.00	-117.41	-2.00	-160.48	
WQZJ443	2	36	38	27.4	N	86	33	42.4	W	61.8	26.0	470.0000	65.73	-26.8	-80.00	-117.41	-2.00	-160.48	
WRKB242	2	36	38	27.5	N	86	33	42.5	W	61.8	26.0	470.0000	65.73	-26.8	-80.00	-117.41	-2.00	-160.48	
WQZJ443	2	36	38	27.4	N														

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED Calculated interfering signal field strength (dBu)
WQTT449	3	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	3	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	3	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	3	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	3	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	2	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	2	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WQTT449	2	35	44	33.8	N	86	57	26.2	W	44.9	190.6	470.0000	62.75	-26.8	-80.00	-114.64	-2.00	-160.69
WRPI819	3	35	49	5.3	N	86	13	31.6	W	67.9	121.7	470.0000	66.30	-26.8	-80.00	-118.23	-2.00	-160.73
WDH861	1	36	6	37.2	N	86	58	1	W	9.7	249.6	470.0000	49.38	-26.8	-80.00	-101.33	-2.00	-160.74
WRPX317	2	35	44	24.4	N	86	57	11.5	W	45.2	190.1	470.0000	62.75	-26.8	-80.00	-114.69	-2.00	-160.75
WRPH867	1	35	45	3.3	N	86	17	12.8	W	67.8	129.6	470.0000	66.23	-26.8	-80.00	-118.22	-2.00	-160.78
WQZ0503	1	35	45	10.1	N	86	58	5	W	44	192.1	470.0000	62.47	-26.8	-80.00	-114.46	-2.00	-160.79
WQZ0503	1	35	45	10.1	N	86	58	5	W	44	192.1	470.0000	62.47	-26.8	-80.00	-114.46	-2.00	-160.79
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WQWTS30	1	35	43	27	N	86	19	10	W	67.6	133.1	470.0000	66.19	-26.8	-80.00	-118.19	-2.00	-160.80
WRPG235	5	35	41	56.3	N	86	21	18.1	W	67.3	136.8	470.0000	66.15	-26.8	-80.00	-118.15	-2.00	-160.80
WQZE593	4	35	41	52	N	86	21	19	W	67.4	136.8	470.0000	66.15	-26.8	-80.00	-118.17	-2.00	-160.82
WRPG259	4	35	39	29	N	86	25	21.7	W	66.8	143.3	470.0000	66.03	-26.8	-80.00	-118.09	-2.00	-160.85
WRUQ389	2	35	43	58.2	N	86	57	41.1	W	46.1	190.8	470.0000	62.75	-26.8	-80.00	-114.87	-2.00	-160.92
WRUQ389	2	35	43	58.2	N	86	57	41.1	W	46.1	190.8	470.0000	62.75	-26.8	-80.00	-114.87	-2.00	-160.92
WRUQ389	2	35	43	58.2	N	86	57	41.1	W	46.1	190.8	470.0000	62.75	-26.8	-80.00	-114.87	-2.00	-160.92
WRUQ389	2	35	43	58.2	N	86	57	41.1	W	46.1	190.8	470.0000	62.75	-26.8	-80.00	-114.87	-2.00	-160.92
WQUN813	2	36	40	10	N	86	40	0	W	61.3	16.8	470.0000	65.21	-26.8	-80.00	-117.34	-2.00	-160.93
WRNS201	2	35	42	16.6	N	86	19	50.5	W	68.4	135.0	470.0000	66.16	-26.8	-80.00	-118.29	-2.00	-160.93
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WPPY736	3	36	22	42.6	N	87	2	18	W	30.6	329.7	470.0000	59.08	-26.8	-80.00	-111.31	-2.00	-161.03
WRPG260	6	35	39	35.9	N	86	23	14	W	68.6	141.0	470.0000	66.07	-26.8	-80.00	-118.32	-2.00	-161.05
WRPI819	1	35	39	35.8	N	86	23	16.7	W	68.6	141.0	470.0000	66.07	-26.8	-80.00	-118.32	-2.00	-161.05
WQWF316	1	36	33	13.1	N	86	57	35.5	W	46.6	349.6	470.0000	62.61	-26.8	-80.00	-114.96	-2.00	-161.15
WQWF316	3	36	33	16.3	N	86	57	29.7	W	46.7	349.8	470.0000	62.61	-26.8	-80.00	-114.98	-2.00	-161.17
WRPH867	6	35	41	8.9	N	86	19	17.8	W	70.4	135.8	470.0000	66.16	-26.8	-80.00	-118.54	-2.00	-161.18
WQZE593	5	35	38	22.2	N	86	23	53.9	W	69.8	142.8	470.0000	66.05	-26.8	-80.00	-118.47	-2.00	-161.22
WRPG265	2	35	38	23.1	N	86	23	53.6	W	69.8	142.8	470.0000	66.05	-26.8	-80.00	-118.47	-2.00	-161.22
WRMY427	2	35	35	14	N	86	39	56	W	64	163.6	470.0000	65.28	-26.8	-80.00	-117.72	-2.00	-161.24
WQPK719	4	36	33	57.2	N	86	15	50	W	71.7	48.6	470.0000	66.20	-26.8	-80.00	-118.70	-2.00	-161.30
WQPK719	2	36	33	57.2	N	86	15	52	W	71.7	48.5	470.0000	66.20	-26.8	-80.00	-118.70	-2.00	-161.30
WQPK719	4	36	33	57.2	N	86	15	50	W	71.7	48.6	470.0000	66.20	-26.8	-80.00	-118.70	-2.00	-161.30
WPLZ239	3	35	37	14.3	N	86	25	37	W	70	145.5	470.0000	65.99	-26.8	-80.00	-118.49	-2.00	-161.30
WQDX696	14	36	21	5.6	N	86	5	32.9	W	73.3	71.1	470.0000	66.39	-26.8	-80.00	-118.89	-2.00	-161.31
WQWF804	2	36	21	5.7	N	86	5	32.6	W	73.3	71.1	470.0000	66.39	-26.8	-80.00	-118.89	-2.00	-161.31
WQWF804	2	36	21	5.7	N	86	5	32.6	W	73.3	71.1	470.0000	66.39	-26.8	-80.00	-118.89	-2.00	-161.31
WQXC652	1	36	26	28.4	N	87	2	16.9	W	36.8	335.2	470.0000	60.36	-26.8	-80.00	-112.91	-2.00	-161.35
WRPG260	4	35	43	29.7	N	86	14	45.6	W	72.5	129.5	470.0000	66.23	-26.8	-80.00	-118.80	-2.00	-161.37
WRVX593	1	36	34	41	N	86	16	12.5	W	72.2	47.5	470.0000	66.19	-26.8	-80.00	-118.76	-2.00	-161.37
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNUJ815	3	36	41	18.1	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WNNNG51	2	36	41	18	N	86	29	11	W	69.6	29.0	470.0000	65.84	-26.8	-80.00	-118.44	-2.00	-161.40
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WPKQ232	2	36	42	8.1	N	86	34	30	W	67.5	22.5	470.0000	65.57	-26.8	-80.00	-118.18	-2.00	-161.41
WNN5974	2	36	33	35.2	N	86	14	28	W	72.8	50.0	470.0000	66.22	-26.8	-80.00	-118.83	-2.00	-161.42
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQAB846	1	36	42	27	N	86	34	33.9	W	68	22.3	470.0000	65.57	-26.8	-80.00	-118.24	-2.00	-161.47
WQHI498	2	35	47	18	N	86	10	3	W	74.1	121.8	470.0000	66.30	-26.8	-80.00	-118.99	-2.00	-161.49
WQWQ557	1	36	19	45.1	N	87	2	45.4	W	26.5	322.4	470.0000	57.35	-26.8	-80.00	-110.06	-2.00	-161.50
WQWQ557	1	36	19	45.1	N	87	2	45.4	W	26.5	322.4	470.0000	57.35	-26.8	-80.00	-110.06	-2.00	-161.50
WNSC768	3	36	42	27.1	N	86	34	9	W	68.3	22.7	470.0000	65.57	-26.8	-80.00	-118.28	-2.00	-161.51
WRDB492	2	36	42	35.5	N	86	34	9.9	W	68.5	22.6	470.0000	65.57	-26.8	-80.00	-118.31	-2.00	-161.54
WRDB492	2	36	42	35.5	N	86	34	9.9	W	68.5	22.6	470.0000	65.57	-26.8	-80.00	-118.31	-2.00	-161.54
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WQUS251	4	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WQUS251	8	36	42	16.5	N	86	31	1.2	W	69.9	26.3	470.0000	65.73	-26.8	-80.00	-118.48	-2.00	-161.55
WRKQ705	1	36	42	47.6	N	86	34	25.1	W	68.7	22.2	470.0000	65.57	-26.8	-80.00	-118.33	-2.00	-161.56
KWO403	3	35	39	36	N	86	18	14	W	73.6	136.4	470.0000	66.15	-26.8	-80.00	-118.93	-2.00	-161.58
KWO403	3	35	39	36	N	86	18	14	W	73.6	136.4	470.0000	66.15	-26.8	-80.00	-118.93	-2.00	-161.58
WQND532	5	35	39	36.3	N	86	18	14.3	W	73.6	136.4	470.0000	66.15	-26.8	-80.00	-118.93	-2.00	-161.58
KWO403	3	35	39	36	N	86	18	14	W	73.6	136.4	470.0000	66.15	-26.8	-80.00	-118.93	-2.00	-161.58
KWO403	3	35	39	36	N	86	18	14	W	73.6	136.4	470.0000	66.15	-26.8	-80.00	-118.93	-2.00	-161.58
WYK530	11	35	43	26.7	N	86	59	16.2	W	47.5	193.4	470.0000	62.33	-26.8	-80.00	-115.13	-2.00	-161.60
WYK530	11	35	43	26.7	N	86	59	16.2	W	47.5	193.4	470.0000	62.33	-26.8	-80.00	-115.13	-2.00	-161.60
WQWL345	1	36	42	55.9	N	86	34	50.8	W	68.7	21.7	470.0000	65.53	-26.8	-80.00	-118.33	-2.00	-161.60
WRDJ267	2	36	38	9	N	86	53	48	W	55	357.1	470.0000	63.59	-26.8	-80.00	-116.40	-2.00	-161.61
WROU384	2	36	42	31.3	N	86	30	45.2	W	70.5	26.5	470.0000	65.73	-26.8	-80.00	-118.56	-2.00	-161.63
WROU384	2	36	42	31.3	N	86	30	45.2	W	70.5	26.5	470.0000	65.73	-26.8	-80.00	-118.56	-2.00	-161.63
WROU384	2	36	42	31.3	N	86	30	45.2	W	70.5	26.5	470.0000	65.73	-26.8	-80.00	-118.56	-2.00	-161.63
WROU384	2	36	42	31.3	N	86	30	45.2	W	70.5	26.5	470.0000	65.73	-26.8	-80.00	-118.56	-2.00	-161.63
WPZP216	2	36	43	4.6	N	86	34	55.7	W	68.9	21.5	470.0000	65.53	-26.8	-80.00	-118.36	-2.00	-161.63
WQIB922	1	35	42	42	N	86	58	49	W	48.7	192.2	470.0000	62.47	-26.8	-80.00	-115.34	-2.00	-161.68
WQVB887	2	36	43	23.4	N	86	34	32.9	W	69.6	21.7	470.0000	65.53	-26.8	-80.00	-118.44	-2.00	-161.72
WRNV664	2	35	34	36.3	N	86	26	43.6	W	73.2	148.8	470.0000	65.92	-26.8	-80.00	-118.88	-2.00	-161.76
WYK530	9	35	38	13.7	N	86	54	6.1	W	56	183.3	470.0000	63.59	-26.8	-80.00	-116.56	-2.00	-161.77
WYK530	9	35	38	13.7	N	86	54	6.1	W	56	183.3	470.0000	63.59	-26.8	-80.00	-116.56	-2.00	-161.77
WPRX899	2	35	34	6.8	N	86	27	40.3	W	73.3	150.1	470.0000	65.87	-26.8	-80.00	-118.89	-2.00	-161.82
WPRX899	2	35	34	6.8	N	86	27	40.3	W	73.3	150.1	470.0000	65.87	-26.8	-80.00	-118.89	-2.00	-161.82
WQSD416	1	35	32	44.8	N	86	38	4.4	W	69.2	162.5	470.0000	65.35	-26.8	-80.00	-118.39	-2.00	-161.85
WQSD416	1	35	32	44.8	N	86	38	4.4	W	69.2	162.5	470.0000	65.35	-26.8	-80.00	-118.39	-2.00	-161.85
WQSD416	1	35	32	44.8	N	86	38	4.4	W	69.2	162.5	470.0000	65.35	-26.8	-80.00	-118.39	-2.00	-161.85
WQSD416	1	35	32	44.8	N	86	38	4.4	W	69.2	162.5	470.0000	65.35	-26.8	-80.00	-118.39	-2.00	-161.85
WQSD416	1	35	32	44.8	N	86	38	4.4	W	69.2	162.5	470.0000	65.35	-26.8	-80.00	-118.39	-2.00	-161.85
KIF409	10	35	38	44.4	N	86	55	11.3	W	55.2	185.1	470.0000	63.35	-26.8	-80.00	-116.43	-2.00	-161.88
KIF409	8	35	38	44.4	N	86	55	11.3	W	55.2	185.1	470.0000	63.35	-26.8	-80.00	-116.43	-2.00	-161.88
WQWK312	4	35	38	44.4	N	86	55	11.3	W	55.2	185.1	470.0000	63.35	-26.8	-80.00	-116.43	-2.00	-161.88
WYK530	4	35	38	44.4	N	86	55											

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQQP586	1	35	49	18.8	N	86	3	29.9	W	80.9	115.8	470.0000	66.35	-26.8	-80.00	-119.75	-2.00	-162.20
WRAC850	4	35	33	59.6	N	86	21	34.5	W	78.4	144.3	470.0000	66.02	-26.8	-80.00	-119.48	-2.00	-162.26
WQHA642	2	36	41	41	N	86	18	49	W	78.9	38.6	470.0000	66.05	-26.8	-80.00	-119.53	-2.00	-162.28
WQQI757	1	36	46	39	N	86	34	12.1	W	75.4	20.4	470.0000	65.47	-26.8	-80.00	-119.14	-2.00	-162.47
WQQI757	1	36	46	39	N	86	34	12.1	W	75.4	20.4	470.0000	65.47	-26.8	-80.00	-119.14	-2.00	-162.47
WQQI757	1	36	46	39	N	86	34	12.1	W	75.4	20.4	470.0000	65.47	-26.8	-80.00	-119.14	-2.00	-162.47
WQQI757	1	36	46	39	N	86	34	12.1	W	75.4	20.4	470.0000	65.47	-26.8	-80.00	-119.14	-2.00	-162.47
WQQI757	1	36	46	39	N	86	34	12.1	W	75.4	20.4	470.0000	65.47	-26.8	-80.00	-119.14	-2.00	-162.47
WRUV660	1	35	30	31.3	N	86	29	38.9	W	77.8	154.4	470.0000	65.73	-26.8	-80.00	-119.41	-2.00	-162.48
WRUV660	1	35	30	31.3	N	86	29	38.9	W	77.8	154.4	470.0000	65.73	-26.8	-80.00	-119.41	-2.00	-162.48
WQEK235	6	36	34	0.2	N	87	1	30	W	49.4	343.3	470.0000	61.75	-26.8	-80.00	-115.47	-2.00	-162.52
WQEK235	6	36	34	0.2	N	87	1	30	W	49.4	343.3	470.0000	61.75	-26.8	-80.00	-115.47	-2.00	-162.52
WNLY257	4	35	29	53.7	N	86	28	25	W	79.6	153.6	470.0000	65.77	-26.8	-80.00	-119.61	-2.00	-162.64
WRDK478	2	36	46	17.5	N	86	42	55.9	W	71.3	10.8	470.0000	64.78	-26.8	-80.00	-118.65	-2.00	-162.67
WQIW262	2	35	29	10.2	N	86	28	14.9	W	80.9	153.8	470.0000	65.77	-26.8	-80.00	-119.75	-2.00	-162.78
WQWP705	1	35	29	37.2	N	86	26	12.4	W	81.6	151.6	470.0000	65.84	-26.8	-80.00	-119.83	-2.00	-162.79
WQWP705	1	35	29	37.2	N	86	26	12.4	W	81.6	151.6	470.0000	65.84	-26.8	-80.00	-119.83	-2.00	-162.79
WROP517	1	35	29	33	N	86	26	14	W	81.7	151.7	470.0000	65.84	-26.8	-80.00	-119.84	-2.00	-162.80
WRED989	2	35	29	35.9	N	86	25	10.9	W	82.4	150.7	470.0000	65.87	-26.8	-80.00	-119.91	-2.00	-162.84
WRTR727	6	35	29	39.8	N	86	24	40.4	W	82.6	150.2	470.0000	65.87	-26.8	-80.00	-119.93	-2.00	-162.86
WPSL546	2	35	47	0	N	87	4	14	W	43.8	205.0	470.0000	60.36	-26.8	-80.00	-114.42	-2.00	-162.86
WNAZ388	5	35	29	22.7	N	86	25	28.9	W	82.5	151.1	470.0000	65.84	-26.8	-80.00	-119.92	-2.00	-162.88
WNAZ388	5	35	29	22.7	N	86	25	28.9	W	82.5	151.1	470.0000	65.84	-26.8	-80.00	-119.92	-2.00	-162.88
WQTR751	1	36	26	43.6	N	87	4	47.6	W	38.9	330.5	470.0000	59.31	-26.8	-80.00	-113.39	-2.00	-162.88
WQYY331	2	35	29	13.3	N	86	25	46	W	82.6	151.5	470.0000	65.84	-26.8	-80.00	-119.93	-2.00	-162.89
WRMY625	2	35	29	16.6	N	86	24	55.8	W	83.1	150.7	470.0000	65.87	-26.8	-80.00	-119.98	-2.00	-162.91
WRKW716	2	35	29	27.7	N	86	24	20.7	W	83.2	150.0	470.0000	65.87	-26.8	-80.00	-119.99	-2.00	-162.92
WPLT529	1	35	29	11.3	N	86	24	33	W	83.5	150.4	470.0000	65.87	-26.8	-80.00	-120.03	-2.00	-162.95
WPLT529	1	35	29	11.3	N	86	24	33	W	83.5	150.4	470.0000	65.87	-26.8	-80.00	-120.03	-2.00	-162.95
WPLT529	1	35	29	11.3	N	86	24	33	W	83.5	150.4	470.0000	65.87	-26.8	-80.00	-120.03	-2.00	-162.95
WPLT529	1	35	29	11.3	N	86	24	33	W	83.5	150.4	470.0000	65.87	-26.8	-80.00	-120.03	-2.00	-162.95
WPLT529	1	35	29	11.3	N	86	24	33	W	83.5	150.4	470.0000	65.87	-26.8	-80.00	-120.03	-2.00	-162.95
WPLT529	1	35	29	11.3	N	86	24	33	W	83.5	150.4	470.0000	65.87	-26.8	-80.00	-120.03	-2.00	-162.95
WQFS693	3	36	49	10	N	86	33	20	W	80.3	20.1	470.0000	65.47	-26.8	-80.00	-119.69	-2.00	-163.01
WQFS693	5	36	49	10	N	86	33	20	W	80.3	20.1	470.0000	65.47	-26.8	-80.00	-119.69	-2.00	-163.01
WNVW224	5	36	43	25.5	N	86	12	59.5	W	87	41.7	470.0000	66.10	-26.8	-80.00	-120.38	-2.00	-163.08
WRCK942	2	36	45	25.4	N	86	50	28	W	68.4	1.8	470.0000	64.01	-26.8	-80.00	-118.29	-2.00	-163.08
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WPM299	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WPM299	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WRHW307	6	36	41	44.5	N	86	8	55.1	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WPM299	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WPM299	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WPM299	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
KNNF902	2	36	41	44.2	N	86	8	54.9	W	89	45.9	470.0000	66.16	-26.8	-80.00	-120.58	-2.00	-163.22
WRJ641	3	35	39	33.2	N	87	1	59.1	W	55.5	195.8	470.0000	62.04	-26.8	-80.00	-116.48	-2.00	-163.24
WQHE537	36	35	32	3	N	86	13	35	W									

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQYA383	12	36	42	12.6	N	86	8	10.6	W	90.4	46.0	470.0000	66.18	-26.8	-80.00	-120.72	-2.00	-163.34
WQYA383	12	36	42	12.6	N	86	8	10.6	W	90.4	46.0	470.0000	66.18	-26.8	-80.00	-120.72	-2.00	-163.34
WQYA383	12	36	42	12.6	N	86	8	10.6	W	90.4	46.0	470.0000	66.18	-26.8	-80.00	-120.72	-2.00	-163.34
KCQ754	2	36	42	12.6	N	86	8	10.6	W	90.4	46.0	470.0000	66.18	-26.8	-80.00	-120.72	-2.00	-163.34
WQQG225	5	36	44	46	N	86	11	32	W	90.3	41.6	470.0000	66.10	-26.8	-80.00	-120.71	-2.00	-163.40
WRPX736	1	36	43	48.5	N	86	9	53	W	90.7	43.5	470.0000	66.14	-26.8	-80.00	-120.74	-2.00	-163.41
WQQG225	1	36	44	55	N	86	11	32	W	90.5	41.5	470.0000	66.10	-26.8	-80.00	-120.72	-2.00	-163.42
WQTH657	2	35	27	54.3	N	86	47	0	W	75.3	174.3	470.0000	64.45	-26.8	-80.00	-119.13	-2.00	-163.48
WNN5975	3	36	44	53.2	N	86	10	39	W	91.4	42.1	470.0000	66.12	-26.8	-80.00	-120.81	-2.00	-163.49
WQQG225	4	36	44	55	N	86	10	36.5	W	91.4	42.1	470.0000	66.12	-26.8	-80.00	-120.81	-2.00	-163.49
WNNK602	3	36	45	21.2	N	86	11	4	W	91.6	41.5	470.0000	66.10	-26.8	-80.00	-120.83	-2.00	-163.53
WQKW304	2	36	39	14.2	N	87	1	18	W	58.6	346.3	470.0000	62.18	-26.8	-80.00	-116.95	-2.00	-163.57
WQBC780	3	36	45	49	N	86	11	2	W	92.2	41.2	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	2	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	3	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	2	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	3	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	2	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	3	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNV224	2	36	45	30.2	N	86	10	37	W	92.2	41.7	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WQBC780	3	36	45	49	N	86	11	2	W	92.2	41.2	470.0000	66.10	-26.8	-80.00	-120.89	-2.00	-163.58
WNNI259	11	36	46	15.2	N	86	11	33	W	92.3	40.5	470.0000	66.09	-26.8	-80.00	-120.90	-2.00	-163.60
WRCH702	2	36	16	40	N	87	3	55	W	23.5	310.4	470.0000	54.08	-26.8	-80.00	-109.01	-2.00	-163.73
WRCH702	2	36	16	40	N	87	3	55	W	23.5	310.4	470.0000	54.08	-26.8	-80.00	-109.01	-2.00	-163.73
WQEE781	12	35	31	2	N	86	8	38	W	95.1	136.6	470.0000	66.15	-26.8	-80.00	-121.16	-2.00	-163.81
WQJG805	1	35	36	54.3	N	87	2	7	W	60.3	194.7	470.0000	62.18	-26.8	-80.00	-117.20	-2.00	-163.82
WRAM550	2	35	29	9.3	N	86	10	44.9	W	95.5	139.4	470.0000	66.10	-26.8	-80.00	-121.19	-2.00	-163.89
WRFJ749	2	35	38	34.1	N	87	3	24.7	W	57.9	197.3	470.0000	61.75	-26.8	-80.00	-116.85	-2.00	-163.90
WXY571	4	36	16	21.2	N	87	3	56	W	23.2	309.3	470.0000	53.76	-26.8	-80.00	-108.90	-2.00	-163.94
KUL720	4	35	37	5.3	N	87	2	39	W	60.2	195.5	470.0000	62.04	-26.8	-80.00	-117.18	-2.00	-163.95
WQWK312	2	35	37	5.3	N	87	2	39	W	60.2	195.5	470.0000	62.04	-26.8	-80.00	-117.18	-2.00	-163.95
WQWK312	2	35	37	5.3	N	87	2	39	W	60.2	195.5	470.0000	62.04	-26.8	-80.00	-117.18	-2.00	-163.95
WQTC810	2	36	39	17.2	N	87	2	31	W	59.2	344.6	470.0000	61.89	-26.8	-80.00	-117.04	-2.00	-163.95
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13	-2.00	-164.04
WPNS363	1	35	37	21.3	N	87	2	56	W	59.8	196.0	470.0000	61.89	-26.8	-80.00	-117.13		

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQWK312	6	35	35	31.6	N	87	3	35.4	W	63.4	196.1	470.0000	61.89	-26.8	-80.00	-117.63	-2.00	-164.54
WYK530	7	35	35	31.6	N	87	3	35.4	W	63.4	196.1	470.0000	61.89	-26.8	-80.00	-117.63	-2.00	-164.54
WRJT343	1	35	35	49.9	N	87	4	20.7	W	63.1	197.2	470.0000	61.75	-26.8	-80.00	-117.59	-2.00	-164.64
WQJD512	4	35	33	21.2	N	87	3	14	W	67.1	194.7	470.0000	62.18	-26.8	-80.00	-118.13	-2.00	-164.75
WQMZ728	2	35	33	21.2	N	87	3	14	W	67.1	194.7	470.0000	62.18	-26.8	-80.00	-118.13	-2.00	-164.75
WPWG336	2	35	33	21.2	N	87	3	14	W	67.1	194.7	470.0000	62.18	-26.8	-80.00	-118.13	-2.00	-164.75
WQOX539	5	35	33	21.2	N	87	3	14	W	67.1	194.7	470.0000	62.18	-26.8	-80.00	-118.13	-2.00	-164.75
KUL720	8	35	33	21.2	N	87	3	14	W	67.1	194.7	470.0000	62.18	-26.8	-80.00	-118.13	-2.00	-164.75
WQOX539	5	35	33	21.2	N	87	3	14	W	67.1	194.7	470.0000	62.18	-26.8	-80.00	-118.13	-2.00	-164.75
WQRX643	1	36	46	58.6	N	86	59	55.6	W	72.2	350.6	470.0000	62.75	-26.8	-80.00	-118.76	-2.00	-164.81
WQRX643	1	36	46	58.6	N	86	59	55.6	W	72.2	350.6	470.0000	62.75	-26.8	-80.00	-118.76	-2.00	-164.81
WQRX643	1	36	46	58.6	N	86	59	55.6	W	72.2	350.6	470.0000	62.75	-26.8	-80.00	-118.76	-2.00	-164.81
WQRX643	1	36	46	58.6	N	86	59	55.6	W	72.2	350.6	470.0000	62.75	-26.8	-80.00	-118.76	-2.00	-164.81
WQRU939	2	35	36	57.4	N	87	6	2.5	W	62	200.0	470.0000	61.30	-26.8	-80.00	-117.44	-2.00	-164.94
WQEE781	9	35	29	24	N	87	1	34	W	73.7	191.4	470.0000	62.61	-26.8	-80.00	-118.94	-2.00	-165.13
WQEE781	9	35	29	24	N	87	1	34	W	73.7	191.4	470.0000	62.61	-26.8	-80.00	-118.94	-2.00	-165.13
WQRH533	1	36	13	48	N	87	2	47	W	19	301.5	470.0000	50.73	-26.8	-80.00	-107.17	-2.00	-165.24
WQRH533	1	36	13	48	N	87	2	47	W	19	301.5	470.0000	50.73	-26.8	-80.00	-107.17	-2.00	-165.24
WQVP668	1	36	6	17.1	N	87	3	14	W	17.4	256.7	470.0000	49.41	-26.8	-80.00	-106.40	-2.00	-165.79
WQVP668	1	36	6	17.1	N	87	3	14	W	17.4	256.7	470.0000	49.41	-26.8	-80.00	-106.40	-2.00	-165.79
WQVP668	1	36	6	17.1	N	87	3	14	W	17.4	256.7	470.0000	49.41	-26.8	-80.00	-106.40	-2.00	-165.79
WRUN424	8	35	57	3.4	N	87	8	16.3	W	32.3	229.3	470.0000	54.38	-26.8	-80.00	-111.78	-2.00	-166.20
WRUN723	9	35	56	53.4	N	87	8	26.4	W	32.7	229.2	470.0000	54.38	-26.8	-80.00	-111.88	-2.00	-166.30
WRCH702	8	36	25	45	N	87	10	5.9	W	42	319.8	470.0000	56.55	-26.8	-80.00	-114.06	-2.00	-166.31
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.41
WREY596	2	36	39	47.2	N	87	10	36.4	W	64.3	334.5	470.0000	60.15	-26.8	-80.00	-117.76	-2.00	-166.

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WPGWG336	7	35	37	55.5	N	87	14	59.5	W	66.3	211.6	470.0000	59.08	-26.8	-80.00	-118.02	-2.00	-167.74
WQVF591	2	35	31	36.3	N	87	14	30	W	76.1	206.5	470.0000	60.15	-26.8	-80.00	-119.22	-2.00	-167.87
WQVF591	2	35	31	36.3	N	87	14	30	W	76.1	206.5	470.0000	60.15	-26.8	-80.00	-119.22	-2.00	-167.87
WQVF591	2	35	31	36.3	N	87	14	30	W	76.1	206.5	470.0000	60.15	-26.8	-80.00	-119.22	-2.00	-167.87
WRDD601	2	36	37	30.9	N	87	15	24.4	W	64.2	327.1	470.0000	58.61	-26.8	-80.00	-117.74	-2.00	-167.93
WRDD601	2	36	37	30.9	N	87	15	24.4	W	64.2	327.1	470.0000	58.61	-26.8	-80.00	-117.74	-2.00	-167.93
WRDD601	2	36	37	30.9	N	87	15	24.4	W	64.2	327.1	470.0000	58.61	-26.8	-80.00	-117.74	-2.00	-167.93
WRKP360	1	36	35	27.7	N	87	15	18.3	W	61	325.2	470.0000	58.13	-26.8	-80.00	-117.30	-2.00	-167.97
WRMU493	2	36	37	55.5	N	87	15	1.3	W	64.5	327.9	470.0000	58.61	-26.8	-80.00	-117.78	-2.00	-167.97
WQGB709	2	36	35	32	N	87	15	22	W	61.1	325.2	470.0000	58.13	-26.8	-80.00	-117.31	-2.00	-167.98
WQGB709	2	36	35	32	N	87	15	22	W	61.1	325.2	470.0000	58.13	-26.8	-80.00	-117.31	-2.00	-167.98
WRTZ280	8	36	34	47.5	N	87	15	12.8	W	59.9	324.7	470.0000	57.88	-26.8	-80.00	-117.14	-2.00	-168.06
WQEQ973	2	36	35	49.2	N	87	15	52.8	W	62	325.0	470.0000	58.13	-26.8	-80.00	-117.44	-2.00	-168.11
WQKI484	2	36	35	49.2	N	87	15	52.8	W	62	325.0	470.0000	58.13	-26.8	-80.00	-117.44	-2.00	-168.11
WRRR271	2	36	37	9.3	N	87	15	42.9	W	63.9	326.4	470.0000	58.37	-26.8	-80.00	-117.70	-2.00	-168.13
WRRR271	2	36	37	9.3	N	87	15	42.9	W	63.9	326.4	470.0000	58.37	-26.8	-80.00	-117.70	-2.00	-168.13
WRRR271	2	36	37	9.3	N	87	15	42.9	W	63.9	326.4	470.0000	58.37	-26.8	-80.00	-117.70	-2.00	-168.13
WRRR271	2	36	37	9.3	N	87	15	42.9	W	63.9	326.4	470.0000	58.37	-26.8	-80.00	-117.70	-2.00	-168.13
WRRR271	2	36	37	9.3	N	87	15	42.9	W	63.9	326.4	470.0000	58.37	-26.8	-80.00	-117.70	-2.00	-168.13
WRRR271	2	36	37	9.3	N	87	15	42.9	W	63.9	326.4	470.0000	58.37	-26.8	-80.00	-117.70	-2.00	-168.13
WRHS273	1	36	43	10.6	N	87	15	12.5	W	73	331.8	470.0000	59.53	-26.8	-80.00	-118.86	-2.00	-168.13
WRHS273	1	36	43	10.6	N	87	15	12.5	W	73	331.8	470.0000	59.53	-26.8	-80.00	-118.86	-2.00	-168.13
WRHS273	1	36	43	10.6	N	87	15	12.5	W	73	331.8	470.0000	59.53	-26.8	-80.00	-118.86	-2.00	-168.13
WRHS273	1	36	43	10.6	N	87	15	12.5	W	73	331.8	470.0000	59.53	-26.8	-80.00	-118.86	-2.00	-168.13
WQFX929	12	36	37	14.1	N	87	15	42.5	W	64	326.5	470.0000	58.37	-26.8	-80.00	-117.72	-2.00	-168.14
WQFX929	12	36	37	14.1	N	87	15	42.5	W	64	326.5	470.0000	58.37	-26.8	-80.00	-117.72	-2.00	-168.14
WQFX929	12	36	37	14.1	N	87	15	42.5	W	64	326.5	470.0000	58.37	-26.8	-80.00	-117.72	-2.00	-168.14
WQFX929	12	36	37	14.1	N	87	15	42.5	W	64	326.5	470.0000	58.37	-26.8	-80.00	-117.72	-2.00	-168.14
WQFX929	12	36	37	14.1	N	87	15	42.5	W	64	326.5	470.0000	58.37	-26.8	-80.00	-117.72	-2.00	-168.14
WRAV286	2	36	37	14.8	N	87	15	48.8	W	64.1	326.4	470.0000	58.37	-26.8	-80.00	-117.73	-2.00	-168.15
WRAV286	2	36	37	14.8	N	87	15	48.8	W	64.1	326.4	470.0000	58.37	-26.8	-80.00	-117.73	-2.00	-168.15
WRAV286	2	36	37	14.8	N	87	15	48.8	W	64.1	326.4	470.0000	58.37	-26.8	-80.00	-117.73	-2.00	-168.15
WQUN476	2	36	36	14.4	N	87	15	37.5	W	62.4	325.6	470.0000	58.13	-26.8	-80.00	-117.50	-2.00	-168.16
WQUN476	2	36	36	14.4	N	87	15	37.5	W	62.4	325.6	470.0000	58.13	-26.8	-80.00	-117.50	-2.00	-168.16
WQUN476	2	36	36	14.4	N	87	15	37.5	W	62.4	325.6	470.0000	58.13	-26.8	-80.00	-117.50	-2.00	-168.16
WRPC813	3	36	34	58.7	N	87	15	56.6	W	60.8	324.0	470.0000	57.88	-26.8	-80.00	-117.27	-2.00	-168.19
WRPC813	2	36	34	58.7	N	87	15	56.6	W	60.8	324.0	470.0000	57.88	-26.8	-80.00	-117.27	-2.00	-168.19
WRCM610	1	36	30	14.7	N	87	15	28.6	W	53.5	319.1	470.0000	56.55	-26.8	-80.00	-116.16	-2.00	-168.41
WRCM609	1	36	30	14.7	N	87	15	28.6	W	53.5	319.1	470.0000	56.55	-26.8	-80.00	-116.16	-2.00	-168.41
WRCM610	1	36	30	14.7	N	87	15	28.6	W	53.5	319.1	470.0000	56.55	-26.8	-80.00	-116.16	-2.00	-168.41
WRCM610	1	36	30	14.7	N	87	15	28.6	W	53.5	319.1	470.0000	56.55	-26.8	-80.00	-116.16	-2.00	-168.41
WRCM610	1	36	30	14.7	N	87	15	28.6	W	53.5	319.1	470.0000	56.55	-26.8	-80.00	-116.16	-2.00	-168.41
WPDY562	6	36	30	12.2	N	87	15	33	W	53.5	318.9	470.0000	56.29	-26.8	-80.00	-116.16	-2.00	-168.67
WPDY562	6	36	30	12.2	N	87	15	33	W	53.5	318.9	470.0000	56.29	-26.8	-80.00	-116.16	-2.00	-168.67
WPDY562	6	36	30	12.2	N	87	15	33	W	53.5	318.9	470.0000	56.29	-26.8	-80.00	-116.16	-2.00	-168.67
WPDY562	6	36	30	12.2	N	87	15	33	W	53.5	318.9	470.0000	56.29	-26.8	-80.00	-116.16	-2.00	-168.67
WPDY562	6	36	30	12.2	N	87	15	33	W	53.5	318.9	470.0000	56.29	-26.8	-80.00	-116.16	-2.00	-168.67
WQST713	1	36	31	31.4	N	87	16	44.3	W	56.6	319.2	470.0000	56.55	-26.8	-80.00	-116.65	-2.00	-168.90
WRON448	2	36	35	12	N	87	17	19	W	62.4	322.7	470.0000	57.35	-26.8	-80.00	-117.50	-2.00	-168.94
WQZC684	2	36	35	4.2	N	87	17	37	W	62.4	322.3	470.0000	57.35	-26.8	-80.00	-117.50	-2.00	-168.94
WQZC684	2	36	35	4.2	N	87	17	37	W	62.4	322.3	470.0000	57.35	-26.8	-80.00	-117.50	-2.00	-168.94
WQZC684	3	36	35	4.2	N	87	17	37	W	62.4	322.3	470.0000	57.35	-26.8	-80.00	-117.50	-2.00	-168.94
WQZC684	2	36	35	4.2	N	87	17	37	W	62.4	322.3	470.0000	57.35	-26.8	-80.00	-117.50	-2.00	-168.94
WQUR442	5	36	4	6.2	N	87	7	38	W	24.9	251.2	470.0000	49.34	-26.8	-80.00	-109.52	-2.00	-168.97
WQVM626	2	36	34	22.5	N	87	17	27	W	61.3	321.7	470.0000	57.08	-26.8	-80.00	-117.34	-2.00	-169.06
KVE523	3	36	34	22.5	N	87	17	27	W	61.3	321.7	470.0000	57.08	-26.8	-80.00	-117.34	-2.00	-169.06
KVE523	3	36	34	22.5	N	87	17	27	W	61.3	321.7	470.0000	57.08	-26.8	-80.00	-117.34	-2.00	-169.06
WQVM626	2	36	34	22.5	N	87	17	27	W	61.3	321.7	470.0000	57.08	-26.8	-80.00	-117.34	-2.00	-169.06
WQVM626	2	36	34	22.5	N	87	17	27	W	61.3	321.7	470.0000	57.08	-26.8	-80.00	-117.34	-2.00	-169.06
WQVM626	2	36	34	22.5	N	87	17	27	W	61.3	321.7	470.0000	57.08	-26.8	-80.00	-117.34	-2.00	-169.06</

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQZH453	2	36	32	3.3	N	87	20	23.9	W	61	316.0	470.0000	55.76	-26.8	-80.00	-117.30	-2.00	-170.34
WQZH453	2	36	32	3.3	N	87	20	23.9	W	61	316.0	470.0000	55.76	-26.8	-80.00	-117.30	-2.00	-170.34
WRBW854	2	36	45	58	N	87	23	18	W	83.7	326.2	470.0000	58.37	-26.8	-80.00	-120.05	-2.00	-170.47
WQRA380	2	36	47	38.9	N	87	23	10.5	W	86.2	327.5	470.0000	58.61	-26.8	-80.00	-120.30	-2.00	-170.49
WPQC545	1	36	48	9.2	N	87	23	4	W	86.9	327.9	470.0000	58.61	-26.8	-80.00	-120.37	-2.00	-170.56
WPQC545	1	36	48	9.2	N	87	23	4	W	86.9	327.9	470.0000	58.61	-26.8	-80.00	-120.37	-2.00	-170.56
WPQC545	1	36	48	9.2	N	87	23	4	W	86.9	327.9	470.0000	58.61	-26.8	-80.00	-120.37	-2.00	-170.56
WPQC545	1	36	48	9.2	N	87	23	4	W	86.9	327.9	470.0000	58.61	-26.8	-80.00	-120.37	-2.00	-170.56
WPQC545	1	36	48	9.2	N	87	23	4	W	86.9	327.9	470.0000	58.61	-26.8	-80.00	-120.37	-2.00	-170.56
WQB0712	2	36	48	3.2	N	87	23	22	W	87	327.6	470.0000	58.61	-26.8	-80.00	-120.38	-2.00	-170.57
WQB0712	2	36	48	3.2	N	87	23	22	W	87	327.6	470.0000	58.61	-26.8	-80.00	-120.38	-2.00	-170.57
WQB0712	2	36	48	3.2	N	87	23	22	W	87	327.6	470.0000	58.61	-26.8	-80.00	-120.38	-2.00	-170.57
WPNT225	3	36	48	5.2	N	87	23	34	W	87.2	327.5	470.0000	58.61	-26.8	-80.00	-120.40	-2.00	-170.59
WQFW615	7	36	6	26.8	N	87	12	59.8	W	31.8	263.4	470.0000	49.72	-26.8	-80.00	-111.64	-2.00	-170.72
WQIF421	1	36	31	15.6	N	87	20	43.8	W	60.3	314.7	470.0000	55.23	-26.8	-80.00	-117.20	-2.00	-170.77
WQIF421	1	36	31	15.6	N	87	20	43.8	W	60.3	314.7	470.0000	55.23	-26.8	-80.00	-117.20	-2.00	-170.77
WQIF421	1	36	31	15.6	N	87	20	43.8	W	60.3	314.7	470.0000	55.23	-26.8	-80.00	-117.20	-2.00	-170.77
WQIF421	1	36	31	15.6	N	87	20	43.8	W	60.3	314.7	470.0000	55.23	-26.8	-80.00	-117.20	-2.00	-170.77
WQIF421	1	36	31	15.6	N	87	20	43.8	W	60.3	314.7	470.0000	55.23	-26.8	-80.00	-117.20	-2.00	-170.77
WQIF421	1	36	31	15.6	N	87	20	43.8	W	60.3	314.7	470.0000	55.23	-26.8	-80.00	-117.20	-2.00	-170.77
WQXD478	1	36	32	16.2	N	87	21	14.7	W	62.2	315.4	470.0000	55.50	-26.8	-80.00	-117.47	-2.00	-170.77
WQT869	2	36	48	50.2	N	87	24	44	W	89.3	327.0	470.0000	58.61	-26.8	-80.00	-120.61	-2.00	-170.80
WPPD208	2	36	31	21.2	N	87	21	5	W	60.8	314.4	470.0000	55.23	-26.8	-80.00	-117.27	-2.00	-170.84
WRUJ641	4	36	32	40	N	87	21	53.8	W	63.4	315.2	470.0000	55.50	-26.8	-80.00	-117.63	-2.00	-170.94
WQ5916	2	36	31	48.2	N	87	21	16	W	61.6	314.8	470.0000	55.23	-26.8	-80.00	-117.38	-2.00	-170.95
WRJT658	1	36	31	37.2	N	87	21	30.5	W	61.6	314.3	470.0000	55.23	-26.8	-80.00	-117.38	-2.00	-170.95
WPSG835	10	36	31	32.6	N	87	21	33.5	W	61.6	314.2	470.0000	55.23	-26.8	-80.00	-117.38	-2.00	-170.95
WPSG835	10	36	31	32.6	N	87	21	33.5	W	61.6	314.2	470.0000	55.23	-26.8	-80.00	-117.38	-2.00	-170.95
WPSG835	10	36	31	32.6	N	87	21	33.5	W	61.6	314.2	470.0000	55.23	-26.8	-80.00	-117.38	-2.00	-170.95
WNPZ334	5	36	30	34.2	N	87	21	5	W	59.8	313.4	470.0000	54.96	-26.8	-80.00	-117.13	-2.00	-170.97
WNPZ334	5	36	30	34.2	N	87	21	5	W	59.8	313.4	470.0000	54.96	-26.8	-80.00	-117.13	-2.00	-170.97
WNPZ334	5	36	30	34.2	N	87	21	5	W	59.8	313.4	470.0000	54.96	-26.8	-80.00	-117.13	-2.00	-170.97
WNPZ334	5	36	30	34.2	N	87	21	5	W	59.8	313.4	470.0000	54.96	-26.8	-80.00	-117.13	-2.00	-170.97
WNPZ334	5	36	30	34.2	N	87	21	5	W	59.8	313.4	470.0000	54.96	-26.8	-80.00	-117.13	-2.00	-170.97
WRUJ604	2	36	31	46	N	87	21	35.1	W	61.9	314.5	470.0000	55.23	-26.8	-80.00	-117.43	-2.00	-170.99
WRUJ604	2	36	31	46	N	87	21	35.1	W	61.9	314.5	470.0000	55.23	-26.8	-80.00	-117.43	-2.00	-170.99
WPEC304	4	36	48	26.6	N	87	24	58.3	W	88.9	326.6	470.0000	58.37	-26.8	-80.00	-120.57	-2.00	-171.00
WPEC304	4	36	48	26.6	N	87	24	58.3	W	88.9	326.6	470.0000	58.37	-26.8	-80.00	-120.57	-2.00	-171.00
WPEC304	4	36	48	26.6	N	87	24	58.3	W	88.9	326.6	470.0000	58.37	-26.8	-80.00	-120.57	-2.00	-171.00
WQVW807	3	36	31	45.2	N	87	21	44	W	62	314.3	470.0000	55.23	-26.8	-80.00	-117.44	-2.00	-171.01
WNUI681	5	35	44	13.7	N	87	22	22.8	W	64.1	225.7	470.0000	55.50	-26.8	-80.00	-117.73	-2.00	-171.03
WRMV710	1	36	49	3.1	N	87	25	16.6	W	90.1	326.7	470.0000	58.37	-26.8	-80.00	-120.69	-2.00	-171.11
WNAV319	3	36	33	38.2	N	87	23	7	W	65.9	315.2	470.0000	55.50	-26.8	-80.00	-117.97	-2.00	-171.27
WNAV319	3	36	33	38.2	N	87	23	7	W	65.9	315.2	470.0000	55.50	-26.8	-80.00	-117.97	-2.00	-171.27
WQDP576	2	36	41	41	N	87	26	38.5	W	80.4	320.1	470.0000	56.79	-26.8	-80.00	-119.70	-2.00	-171.70
WQONQ474	2	36	37	49.1	N	87	26	5.3	W	74.6	317.1	470.0000	56.03	-26.8	-80.00	-119.05	-2.00	-171.81
WRHV338	2	36	39	38.9	N	87	26	16.5	W	77.2	318.6	470.0000	56.29	-26.8	-80.00	-119.34	-2.00	-171.85
WRHV338	3	36	39	38.9	N	87	26	16.5	W	77.2	318.6	470.0000	56.29	-26.8	-80.00	-119.34	-2.00	-171.85
WRHV338	2	36	39	38.9	N	87	26	16.5	W	77.2	318.6	470.0000	56.29	-26.8	-80.00	-119.34	-2.00	-171.85
WRHV338	2	36	39	38.9	N	87	26	16.5	W	77.2	318.6	470.0000	56.29	-26.8	-80.00	-119.34	-2.00	-171.85
WQONQ478	6	36	36	35.4	N	87	25	56.5	W	72.8	316.0	470.0000	55.76	-26.8	-80.00	-118.83	-2.00	-171.88
WQNS241	5	36	39	27.6	N	87	26	49.5	W	77.5	318.0	470.0000	56.29	-26.8	-80.00	-119.38	-2.00	-171.89
WQONQ482	4	36	37	16.6	N	87	26	3.4	W	73.8	316.5	470.0000	55.76	-26.8	-80.00	-118.95	-2.00	-172.00
WQONQ482	2	36	39	59	N	87	27	9.8	W	78.6	318.2	470.0000	56.29	-26.8	-80.00	-119.50	-2.00	-172.01
WQVUJ322	4	36	37	21.6	N	87	26	10.5	W	74	316.5	470.0000	55.76	-26.8	-80.00	-118.98	-2.00	-172.02
WQVUJ322	5	36	37	24	N	87	26	7	W	74	316.6	470.0000	55.76	-26.8	-80.00	-118.98	-2.00	-172.02
WQVUJ322	6	36	37	24.9	N	87	26	3.9	W	74	316.7	470.0000	55.76	-26.8	-80.00	-118.98	-2.00	-172.02
WQBE220	2	36	38	46	N	87	26	45	W	76.5	317.4	470.0000	56.03	-26.8	-80.00	-119.27	-2.00	-172.03
WQONQ474	4	36	38	56.6	N	87	26	35.4	W	76.6	317.7	470.0000	56.03	-26.8	-80.00	-119.28	-2.00	-172.04
WPSN974	1	36	40	1	N	87	27	24	W	78.9	318.1	470.0000	56.29	-26.8	-80.00	-119.53	-2.00	-172.04

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Sorted
																		Calculated interfering signal field strength (dBu)
WQNS241	6	36	39	27.4	N	87	27	13.4	W	77.9	317.7	470.0000	56.03	-26.8	-80.00	-119.42	-2.00	-172.19
WQVU322	1	36	39	18.6	N	87	27	22	W	77.9	317.4	470.0000	56.03	-26.8	-80.00	-119.42	-2.00	-172.19
WQNO474	3	36	39	19.2	N	87	27	28.9	W	78	317.3	470.0000	56.03	-26.8	-80.00	-119.43	-2.00	-172.20
WQFX759	2	36	38	12	N	87	26	45	W	75.7	316.9	470.0000	55.76	-26.8	-80.00	-119.17	-2.00	-172.22
WQNS241	2	36	36	50.8	N	87	26	48	W	74	315.5	470.0000	55.50	-26.8	-80.00	-118.98	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	5	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WPWV981	2	36	44	8.8	N	87	28	40.5	W	85.9	320.6	470.0000	56.79	-26.8	-80.00	-120.27	-2.00	-172.28
WQNS241	4	36	36	59.6	N	87	26	40.5	W	74.1	315.8	470.0000	55.50	-26.8	-80.00	-118.99	-2.00	-172.29
WQLH736	1	36	36	57.5	N	87	26	51.5	W	74.2	315.6	470.0000	55.50	-26.8	-80.00	-119.00	-2.00	-172.30
WQLH735	1	36	36	57.5	N	87	26	51.5	W	74.2	315.6	470.0000	55.50	-26.8	-80.00	-119.00	-2.00	-172.30
WQVU321	1	36	38	27.7	N	87	27	43.5	W	77.1	316.3	470.0000	55.76	-26.8	-80.00	-119.33	-2.00	-172.38
WQNO478	4	36	40	16.8	N	87	28	0.6	W	79.8	317.8	470.0000	56.03	-26.8	-80.00	-119.63	-2.00	-172.40
WQNO474	5	36	35	58.9	N	87	26	42.5	W	72.8	314.7	470.0000	55.23	-26.8	-80.00	-118.83	-2.00	-172.40
WQVU320	3	36	35	51.1	N	87	26	57.1	W	72.9	314.4	470.0000	55.23	-26.8	-80.00	-118.85	-2.00	-172.41
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQ8475	3	36	27	9.2	N	87	22	16	W	57.1	307.6	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WQNZ346	3	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WQNZ346	3	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPQI708	2	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPNU352	9	36	27	8.7	N	87	22	16.4	W	57.1	307.5	470.0000	53.08	-26.8	-80.00	-116.72	-2.00	-172.44
WPNU352	9	36	27	8.7	N	87	22	16.4	W	57.1	307.5</							

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	SORTED
																		Calculated interfering signal field strength (dBu)
WQNO482	6	36	40	19.4	N	87	29	0.1	W	80.9	317.1	470.0000	56.03	-26.8	-80.00	-119.75	-2.00	-172.52
WQNO478	1	36	39	3.7	N	87	28	31.5	W	78.7	316.3	470.0000	55.76	-26.8	-80.00	-119.51	-2.00	-172.55
WQNO478	2	36	39	0.8	N	87	28	39.2	W	78.8	316.1	470.0000	55.76	-26.8	-80.00	-119.52	-2.00	-172.57
WQNS241	3	36	37	42.6	N	87	28	13.3	W	76.6	315.2	470.0000	55.50	-26.8	-80.00	-119.28	-2.00	-172.58
WQNO483	3	36	39	18.8	N	87	28	31.4	W	79.1	316.5	470.0000	55.76	-26.8	-80.00	-119.56	-2.00	-172.60
WQLH735	6	36	40	53.2	N	87	29	20.2	W	82	317.3	470.0000	56.03	-26.8	-80.00	-119.87	-2.00	-172.63
WQNO481	3	36	37	49.9	N	87	28	31	W	77.1	315.1	470.0000	55.50	-26.8	-80.00	-119.33	-2.00	-172.63
WQNO482	1	36	36	32.5	N	87	27	58.7	W	74.9	314.2	470.0000	55.23	-26.8	-80.00	-119.08	-2.00	-172.65
WQNO481	4	36	39	16.6	N	87	29	5.4	W	79.6	316.0	470.0000	55.76	-26.8	-80.00	-119.61	-2.00	-172.65
WQNO481	2	36	40	51.9	N	87	29	32.1	W	82.2	317.2	470.0000	56.03	-26.8	-80.00	-119.89	-2.00	-172.66
WQNO481	6	36	38	15.7	N	87	28	16.9	W	77.4	315.7	470.0000	55.50	-26.8	-80.00	-119.37	-2.00	-172.67
WQVU321	5	36	40	55.3	N	87	29	40	W	82.4	317.1	470.0000	56.03	-26.8	-80.00	-119.91	-2.00	-172.68
WQNO483	4	36	39	44.7	N	87	28	48.7	W	79.9	316.7	470.0000	55.76	-26.8	-80.00	-119.64	-2.00	-172.69
WQLH736	5	36	39	44.7	N	87	28	48.7	W	79.9	316.7	470.0000	55.76	-26.8	-80.00	-119.64	-2.00	-172.69
WQNO482	5	36	39	39.6	N	87	29	2	W	80	316.4	470.0000	55.76	-26.8	-80.00	-119.65	-2.00	-172.70
WQVU320	4	36	35	36.8	N	87	27	24.1	W	73.1	313.7	470.0000	54.96	-26.8	-80.00	-118.87	-2.00	-172.71
WQVU321	4	36	39	48.2	N	87	29	12.1	W	80.4	316.5	470.0000	55.76	-26.8	-80.00	-119.70	-2.00	-172.74
WQNO482	3	36	36	53	N	87	28	19.4	W	75.7	314.3	470.0000	55.23	-26.8	-80.00	-119.17	-2.00	-172.74
WQVU321	2	36	35	34.9	N	87	27	57.6	W	73.6	313.3	470.0000	54.96	-26.8	-80.00	-118.93	-2.00	-172.77
WQLH735	4	36	40	0.4	N	87	29	17.7	W	80.8	316.6	470.0000	55.76	-26.8	-80.00	-119.74	-2.00	-172.78
WQNO481	5	36	39	53.1	N	87	29	34.5	W	80.9	316.2	470.0000	55.76	-26.8	-80.00	-119.75	-2.00	-172.79
WQVU321	3	36	37	34.9	N	87	28	41.7	W	77	314.7	470.0000	55.23	-26.8	-80.00	-119.32	-2.00	-172.89
WQNO478	5	36	40	40.5	N	87	29	36	W	82	316.9	470.0000	55.76	-26.8	-80.00	-119.87	-2.00	-172.91
WQNS241	1	36	40	18.2	N	87	30	23.6	W	82.3	316.0	470.0000	55.76	-26.8	-80.00	-119.90	-2.00	-172.94
WQLH735	5	36	40	15.4	N	87	30	24.2	W	82.3	316.0	470.0000	55.76	-26.8	-80.00	-119.90	-2.00	-172.94
WQNO483	2	36	40	38.4	N	87	30	2.5	W	82.4	316.6	470.0000	55.76	-26.8	-80.00	-119.91	-2.00	-172.95
WQLH736	6	36	40	38.7	N	87	30	2.7	W	82.4	316.6	470.0000	55.76	-26.8	-80.00	-119.91	-2.00	-172.95
WQFC472	2	36	14	57.1	N	87	17	39.8	W	40.4	287.5	470.0000	49.38	-26.8	-80.00	-113.72	-2.00	-173.14
WQFC472	2	36	14	57.1	N	87	17	39.8	W	40.4	287.5	470.0000	49.38	-26.8	-80.00	-113.72	-2.00	-173.14
WPUS970	2	35	45	57	N	87	27	8	W	67.3	231.9	470.0000	53.76	-26.8	-80.00	-118.15	-2.00	-173.19
WPUS970	2	35	45	57	N	87	27	8	W	67.3	231.9	470.0000	53.76	-26.8	-80.00	-118.15	-2.00	-173.19
WQRI359	2	35	45	57	N	87	27	8	W	67.3	231.9	470.0000	53.76	-26.8	-80.00	-118.15	-2.00	-173.19
WPUS970	2	35	45	57	N	87	27	8	W	67.3	231.9	470.0000	53.76	-26.8	-80.00	-118.15	-2.00	-173.19
WNLQ538	5	36	10	56.3	N	87	20	14.2	W	42.7	276.4	470.0000	49.76	-26.8	-80.00	-114.20	-2.00	-173.24
WNLQ538	5	36	10	56.3	N	87	20	14.2	W	42.7	276.4	470.0000	49.76	-26.8	-80.00	-114.20	-2.00	-173.24
WNLQ538	2	36	10	59.2	N	87	20	20	W	42.8	276.5	470.0000	49.76	-26.8	-80.00	-114.22	-2.00	-173.26
WQNO483	1	36	37	11.6	N	87	30	23.1	W	78.3	313.1	470.0000	54.96	-26.8	-80.00	-119.47	-2.00	-173.31
WQLH736	3	36	37	12.2	N	87	30	22.6	W	78.3	313.1	470.0000	54.96	-26.8	-80.00	-119.47	-2.00	-173.31
WQLH736	4	36	34	26.7	N	87	28	57.9	W	73.3	311.3	470.0000	54.38	-26.8	-80.00	-118.89	-2.00	-173.31
WQNO483	5	36	34	26.3	N	87	28	58.9	W	73.4	311.2	470.0000	54.38	-26.8	-80.00	-118.91	-2.00	-173.32
WQLH735	3	36	34	27.9	N	87	28	57.1	W	73.4	311.3	470.0000	54.38	-26.8	-80.00	-118.91	-2.00	-173.32
WQOZ337	1	36	5	18.6	N	87	20	12.9	W	42.8	262.3	470.0000	49.67	-26.8	-80.00	-114.22	-2.00	-173.35
WRJJ641	2	36	5	45.4	N	87	20	32.4	W	43.2	263.5	470.0000	49.72	-26.8	-80.00	-114.30	-2.00	-173.39
WQTW457	2	36	12	53.6	N	87	19	39.8	W	42.4	281.4	470.0000	49.53	-26.8	-80.00	-114.14	-2.00	-173.41
WQTW457	2	36	12	53.6	N	87	19	39.8	W	42.4	281.4	470.0000	49.53	-26.8	-80.00	-114.14	-2.00	-173.41
WQTW457	2	36	12	53.6	N	87	19	39.8	W	42.4	281.4	470.0000	49.53	-26.8	-80.00	-114.14	-2.00	-173.41
WQTW457	2	36	12	53.6	N	87	19	39.8	W	42.4	281.4	470.0000	49.53	-26.8	-80.00	-114.14	-2.00	-173.41
WQTW457	2	36	12	53.6	N	87	19	39.8	W	42.4	281.4	470.0000	49.53	-26.8	-80.00	-114.14	-2.00	-173.41
WPQF555	6	35	55	58.2	N	87	19	4	W	46.8	240.5	470.0000	50.34	-26.8	-80.00	-115.00	-2.00	-173.46
WQJL820	2	35	32	52.3	N	87	33	18.1	W	90.6	223.5	470.0000	56.03	-26.8	-80.00	-120.73	-2.00	-173.50
WXB805	2	35	32	52.3	N	87	33	18.1	W	90.6	223.5	470.0000	56.03	-26.8	-80.00	-120.73	-2.00	-173.50
WXB805	2	35	32	52.3	N	87	33	18.1	W	90.6	223.5	470.0000	56.03	-26.8	-80.00	-120.73	-2.00	-173.50
WRNA496	1	35	56	32	N	87	19	23	W	46.7	241.9	470.0000	50.22	-26.8	-80.00	-114.98	-2.00	-173.56
WQWF642	3	36	2	21	N	87	19	32	W	42.9	254.8	470.0000	49.38	-26.8	-80.00	-114.24	-2.00	-173.67
WQWF642	1	36	2	21	N	87	19	32	W	42.9	254.8	470.0000	49.38	-26.8	-80.00	-114.24	-2.00	-173.67
WQVX343	2	36	2	28.2	N	87	20	12.3	W	43.9	255.5	470.0000	49.41	-26.8	-80.00	-114.44	-2.00	-173.83
WPRK857	5	36	2	40.3	N	87	20	42.9	W	44.5	256.2	470.0000	49.41	-26.8	-80.00	-114.56	-2.00	-173.95
WPRK857	5	36	2	40.3	N	87	20	42.9	W	44.5	256.2	470.0000	49.41	-26.8	-80.00	-114.56	-2.00	-173.95
WPRK857	5	36	2	40.3	N	87	20	42.9	W	44.5	256.2	470.0000	49.41	-26.8	-80.00	-114.56	-2.00	-173.95
WRBL661	2	36	2	57	N	87	20	51	W	44.6	256.9	470.0000	49.41	-26.8	-80.00	-114.58	-2.00	-

Appendix B: WIIW-LD Ch14 Nashville

LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)		LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Sorted
														Calculated interfering signal field strength (dBu)					
WPPYD562	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPTM560	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPTM560	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPPYD562	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPPYD562	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPPYD562	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPTM560	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WPTM560	4	36	32	41	N	87	30	3	W	72.5	308.5	470.0000	53.42	-26.8	-80.00	-118.80	-2.00	-174.18	
WQBD839	3	36	1	37	N	87	21	8	W	45.6	254.0	470.0000	49.38	-26.8	-80.00	-114.77	-2.00	-174.20	
WQBD839	3	36	1	37	N	87	21	8	W	45.6	254.0	470.0000	49.38	-26.8	-80.00	-114.77	-2.00	-174.20	
WQSJ403	2	35	34	38.3	N	87	34	55.7	W	90	226.1	470.0000	55.23	-26.8	-80.00	-120.68	-2.00	-174.24	
WQSJ403	2	35	34	38.3	N	87	34	55.7	W	90	226.1	470.0000	55.23	-26.8	-80.00	-120.68	-2.00	-174.24	
KNGA283	3	36	5	7.2	N	87	23	27	W	47.7	262.7	470.0000	49.67	-26.8	-80.00	-115.16	-2.00	-174.30	
WQAZ704	3	36	4	26.9	N	87	23	3.5	W	47.3	261.1	470.0000	49.59	-26.8	-80.00	-115.09	-2.00	-174.30	
WQAZ704	3	36	4	26.9	N	87	23	3.5	W	47.3	261.1	470.0000	49.59	-26.8	-80.00	-115.09	-2.00	-174.30	
WQAZ704	3	36	4	26.9	N	87	23	3.5	W	47.3	261.1	470.0000	49.59	-26.8	-80.00	-115.09	-2.00	-174.30	
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WQAZ704	3	36	4	26.9	N	87	23	3.5	W	47.3	261.1	470.0000	49.59	-26.8	-80.00	-115.09	-2.00	-174.30	
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WQAZ704	3	36	4	26.9	N	87	23	3.5	W	47.3	261.1	470.0000	49.59	-26.8	-80.00	-115.09	-2.00	-174.30	

Appendix B: WIIW-LD Ch14 Nashville
LMR Overload Protection Calculations

LM receiver sensitivity: -120.0 dBm

																		SORTED
Callsign	Site	Latitude Deg	Latitude Min	Latitude Sec	Lat NS	Longitude Deg	Longitude Min	Longitude Sec	Lon EW	Dist From WIIW (km)	Az From WIIW	Lower Band Edge Frequency (MHz)	WIIW ERP H+V (dBm)	DTV Coupling into LM for LM=11.2 kHz (dB)	LM Receiver OOB Rejection (dB)	Free Space Loss (dB)	LM line loss (dB)	Calculated interfering signal field strength (dBu)
WQDU754	7	36	25	52.1	N	87	38	28.6	W	76.8	295.1	470.0000	49.78	-26.8	-80.00	-119.30	-2.00	-178.32
WQQY306	2	36	23	17.4	N	87	39	5.4	W	75.8	291.6	470.0000	49.38	-26.8	-80.00	-119.19	-2.00	-178.60
WQUC392	2	35	54	38.5	N	87	39	11.8	W	75.5	250.4	470.0000	49.31	-26.8	-80.00	-119.15	-2.00	-178.64
WQWX391	2	36	23	31	N	87	39	24	W	76.4	291.7	470.0000	49.38	-26.8	-80.00	-119.25	-2.00	-178.67
WQWX391	2	36	23	31	N	87	39	24	W	76.4	291.7	470.0000	49.38	-26.8	-80.00	-119.25	-2.00	-178.67
WQWX391	2	36	23	31	N	87	39	24	W	76.4	291.7	470.0000	49.38	-26.8	-80.00	-119.25	-2.00	-178.67
WQWX391	2	36	23	31	N	87	39	24	W	76.4	291.7	470.0000	49.38	-26.8	-80.00	-119.25	-2.00	-178.67

TECHNICAL
DOCUMENTATION

Nashville, TN

Bridge News



BROADCAST

WIIW 12-Bay Directional 20% V

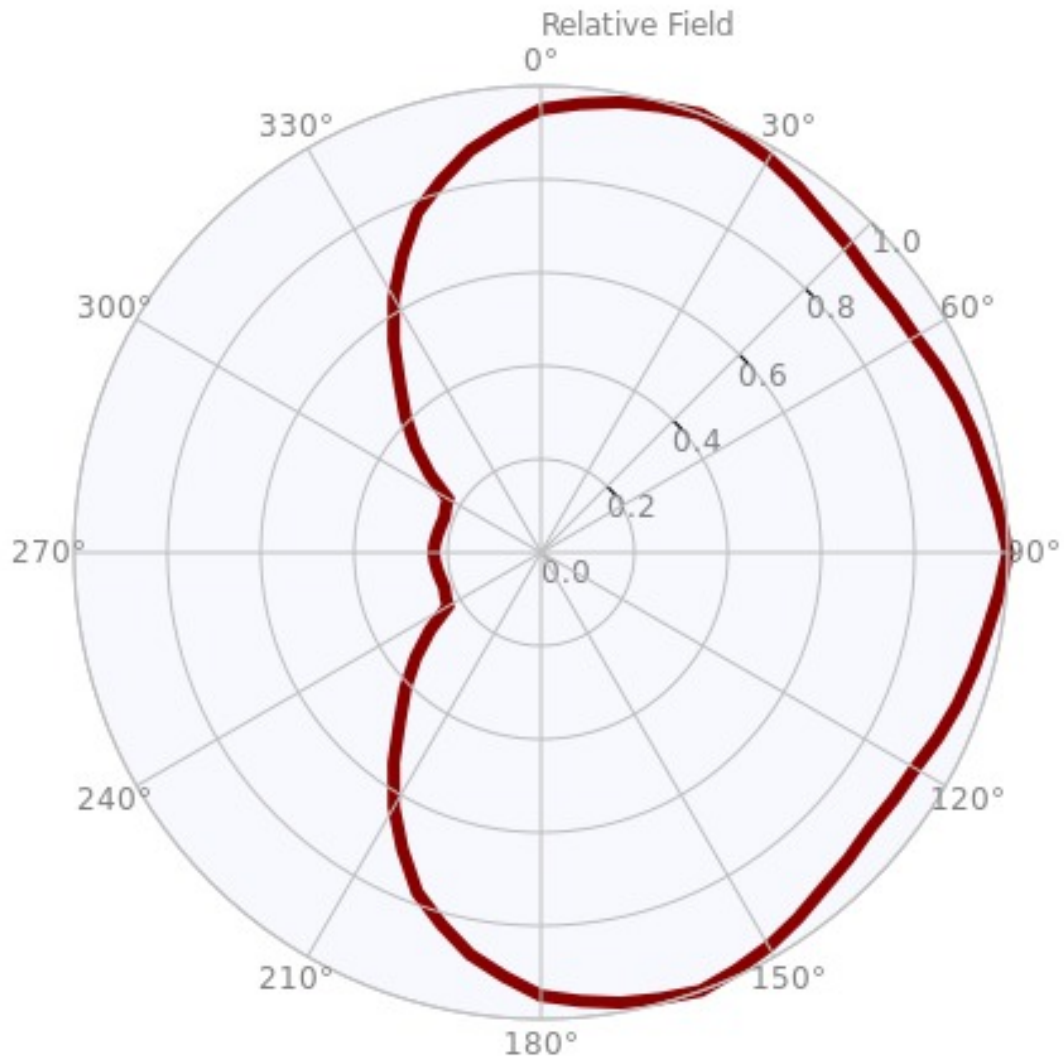
KATHREIN



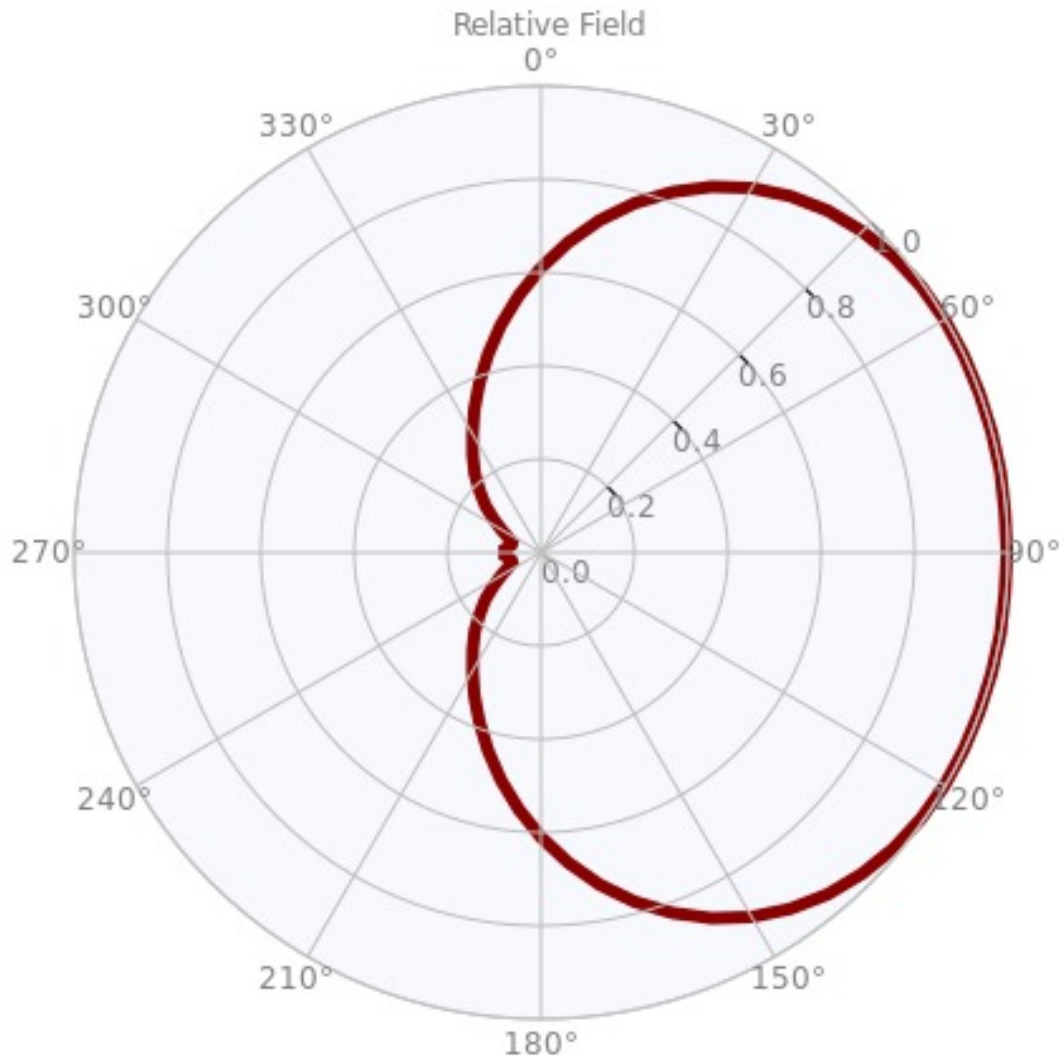
Summary

Antenna Specifications	
Antenna Type	Coaxial Slot
Antenna Model	ATC-BCE312UA-V1-14
Electrical Specifications	
Channel(s)	14
Frequency Range (MHz)	470 - 476
Polarization	Elliptical
Horizontal Azimuth Pattern	UA
Directivity	1.70
dB	2.30
Vertical Azimuth Pattern	V1-Wide Cardioid
Directivity	2.16
dB	3.34
Vertical Component	20 %
Azimuth Peak of Beam	90 °
Elevation Pattern	BC12
Directivity	12.00
dB	10.79
Electrical Beam Tilt	0.75 °
Antenna Peak Power Gain	
Horizontal Gain Power	17.00
Horizontal Gain Ratio	12.30 dBd
Vertical Gain Power	3.40
Vertical Gain Ratio	5.31 dBd
Line Type	1-5/8" 50 Ohm Foam Flex Line
Line Length	700 ft
Total Line Loss	3.44 dB
Effective Radiated Power (ERP)	15 kW
ERP Vertical Power	3.00 kW
Transmitter Power Output (TPO)	
TPO Power	1.95 kW
TPO Ratio	2.89 dBk
Input Type	EIA 1-5/8"
Mechanical Specifications	
Mount Type	Side Mount
Length of Antenna	28.59 ft
Center of Radiation	14.29 ft
Radome Diameter	TBD
Color	White
Calculated Weight	Contact Alive Telecom 1 2
Windload (Shear)	Contact Alive Telecom 1 2

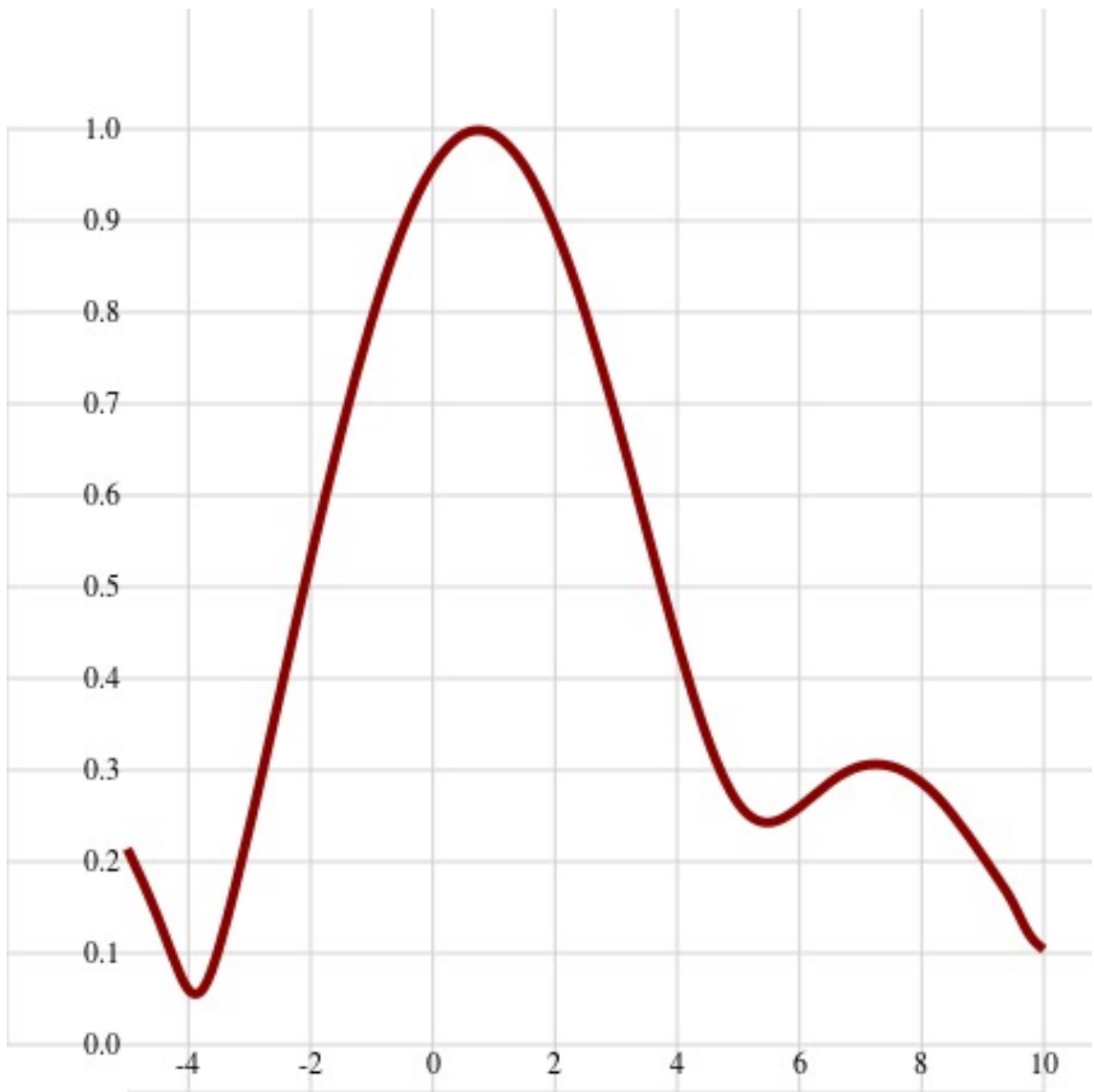
Horizontal Azimuth Pattern



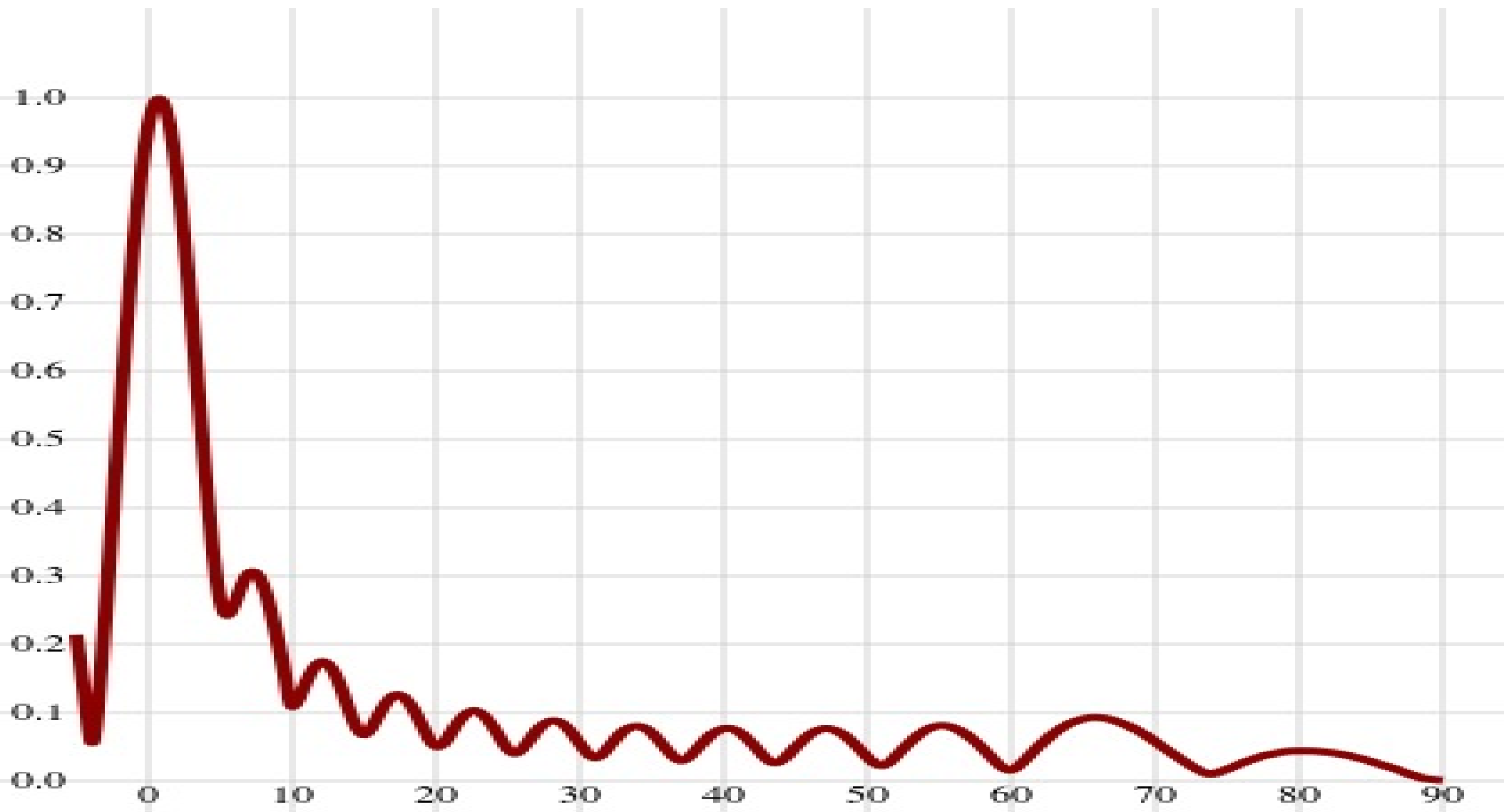
Vertical Azimuth Pattern



Elevation pattern -5 to 10



Elevation pattern -5 to 90



Azimuth Horizontal Pattern Tabulation

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0°	0.950	-0.45	90°	1.000	0.00	180°	0.950	-0.45	270°	0.230	-12.77
2°	0.954	-0.41	92°	1.000	0.00	182°	0.941	-0.53	272°	0.229	-12.80
4°	0.961	-0.35	94°	0.989	-0.10	184°	0.922	-0.71	274°	0.228	-12.84
6°	0.969	-0.27	96°	0.981	-0.17	186°	0.903	-0.89	276°	0.227	-12.88
8°	0.976	-0.21	98°	0.978	-0.19	188°	0.884	-1.07	278°	0.226	-12.92
10°	0.980	-0.18	100°	0.970	-0.26	190°	0.875	-1.16	280°	0.225	-12.96
12°	0.982	-0.16	102°	0.970	-0.26	192°	0.862	-1.29	282°	0.224	-13.00
14°	0.988	-0.10	104°	0.962	-0.34	194°	0.838	-1.54	284°	0.223	-13.03
16°	0.992	-0.07	106°	0.958	-0.37	196°	0.812	-1.81	286°	0.222	-13.07
18°	0.998	-0.02	108°	0.952	-0.43	198°	0.788	-2.07	288°	0.221	-13.11
20°	1.000	0.00	110°	0.950	-0.45	200°	0.775	-2.21	290°	0.220	-13.15
22°	0.997	-0.03	112°	0.947	-0.47	202°	0.757	-2.42	292°	0.221	-13.11
24°	0.991	-0.08	114°	0.941	-0.53	204°	0.721	-2.84	294°	0.224	-13.00
26°	0.984	-0.14	116°	0.934	-0.59	206°	0.684	-3.30	296°	0.226	-12.92
28°	0.978	-0.19	118°	0.928	-0.65	208°	0.648	-3.77	298°	0.229	-12.80
30°	0.975	-0.22	120°	0.925	-0.68	210°	0.630	-4.01	300°	0.230	-12.77
32°	0.971	-0.26	122°	0.924	-0.69	212°	0.610	-4.29	302°	0.245	-12.22
34°	0.962	-0.34	124°	0.923	-0.70	214°	0.570	-4.88	304°	0.275	-11.21
36°	0.953	-0.42	126°	0.922	-0.71	216°	0.530	-5.51	306°	0.305	-10.31
38°	0.944	-0.50	128°	0.921	-0.71	218°	0.490	-6.20	308°	0.335	-9.50
40°	0.940	-0.54	130°	0.920	-0.72	220°	0.470	-6.56	310°	0.350	-9.12
42°	0.938	-0.56	132°	0.922	-0.71	222°	0.458	-6.78	312°	0.365	-8.75
44°	0.932	-0.61	134°	0.928	-0.65	224°	0.436	-7.21	314°	0.395	-8.07
46°	0.928	-0.65	136°	0.932	-0.61	226°	0.408	-7.79	316°	0.425	-7.43
48°	0.922	-0.71	138°	0.938	-0.56	228°	0.379	-8.43	318°	0.455	-6.84
50°	0.920	-0.72	140°	0.940	-0.54	230°	0.350	-9.12	320°	0.470	-6.56
52°	0.921	-0.71	142°	0.944	-0.50	232°	0.335	-9.50	322°	0.490	-6.20
54°	0.922	-0.71	144°	0.953	-0.42	234°	0.305	-10.31	324°	0.530	-5.51
56°	0.923	-0.70	146°	0.962	-0.34	236°	0.275	-11.21	326°	0.570	-4.88
58°	0.924	-0.69	148°	0.971	-0.26	238°	0.245	-12.22	328°	0.610	-4.29
60°	0.925	-0.68	150°	0.975	-0.22	240°	0.230	-12.77	330°	0.630	-4.01
62°	0.928	-0.65	152°	0.978	-0.19	242°	0.229	-12.80	332°	0.648	-3.77
64°	0.934	-0.59	154°	0.984	-0.14	244°	0.226	-12.92	334°	0.684	-3.30
66°	0.941	-0.53	156°	0.991	-0.08	246°	0.224	-13.00	336°	0.721	-2.84
68°	0.947	-0.47	158°	0.997	-0.03	248°	0.221	-13.11	338°	0.757	-2.42
70°	0.950	-0.45	160°	1.000	0.00	250°	0.220	-13.15	340°	0.775	-2.21
72°	0.952	-0.43	162°	0.998	-0.02	252°	0.221	-13.11	342°	0.788	-2.07
74°	0.958	-0.37	164°	0.992	-0.07	254°	0.222	-13.07	344°	0.812	-1.81
76°	0.962	-0.34	166°	0.988	-0.10	256°	0.223	-13.03	346°	0.838	-1.54
78°	0.968	-0.28	168°	0.982	-0.16	258°	0.224	-13.00	348°	0.862	-1.29
80°	0.970	-0.26	170°	0.980	-0.18	260°	0.225	-12.96	350°	0.875	-1.16
82°	0.974	-0.23	172°	0.976	-0.21	262°	0.226	-12.92	352°	0.884	-1.07
84°	0.981	-0.17	174°	0.969	-0.27	264°	0.227	-12.88	354°	0.903	-0.89
86°	0.989	-0.10	176°	0.961	-0.35	266°	0.228	-12.84	356°	0.922	-0.71
88°	0.996	-0.03	178°	0.954	-0.41	268°	0.229	-12.80	358°	0.941	-0.53



Azimuth Pattern Tabulation, FCC

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0°	0.950	-0.45	90°	1.000	0.00	180°	0.950	-0.45	270°	0.230	-12.77
10°	0.980	-0.18	100°	0.970	-0.26	190°	0.875	-1.16	280°	0.225	-12.96
20°	1.000	0.00	110°	0.950	-0.45	200°	0.775	-2.21	290°	0.220	-13.15
30°	0.975	-0.22	120°	0.925	-0.68	210°	0.630	-4.01	300°	0.230	-12.77
40°	0.940	-0.54	130°	0.920	-0.72	220°	0.470	-6.56	310°	0.350	-9.12
50°	0.920	-0.72	140°	0.940	-0.54	230°	0.350	-9.12	320°	0.470	-6.56
60°	0.925	-0.68	150°	0.975	-0.22	240°	0.230	-12.77	330°	0.630	-4.01
70°	0.950	-0.45	160°	1.000	0.00	250°	0.220	-13.15	340°	0.775	-2.21
80°	0.970	-0.26	170°	0.980	-0.18	260°	0.225	-12.96	350°	0.875	-1.16

Elevation Pattern Tabulation

-5 to 10 in 0.25 increments, 10 to 90 in 0.50 increments

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-5.00	0.214	-13.39	8.75	0.230	-12.77	35.00	0.071	-22.97	62.50	0.062	-24.15
-4.75	0.179	-14.94	9.00	0.206	-13.72	35.50	0.060	-24.44	63.00	0.071	-22.97
-4.50	0.140	-17.08	9.25	0.181	-14.85	36.00	0.047	-26.56	63.50	0.078	-22.16
-4.25	0.095	-20.45	9.50	0.157	-16.08	36.50	0.035	-29.12	64.00	0.084	-21.51
-4.00	0.053	-25.51	9.75	0.117	-18.64	37.00	0.028	-31.06	64.50	0.088	-21.11
-3.75	0.054	-25.35	10.00	0.104	-19.66	37.50	0.032	-29.90	65.00	0.091	-20.82
-3.50	0.103	-19.74	10.50	0.121	-18.34	38.00	0.043	-27.33	65.50	0.093	-20.63
-3.25	0.167	-15.55	11.00	0.147	-16.65	38.50	0.055	-25.19	66.00	0.093	-20.63
-3.00	0.237	-12.51	11.50	0.167	-15.55	39.00	0.066	-23.61	66.50	0.092	-20.72
-2.75	0.309	-10.20	12.00	0.177	-15.04	39.50	0.073	-22.73	67.00	0.090	-20.92
-2.50	0.383	-8.34	12.50	0.173	-15.24	40.00	0.077	-22.27	67.50	0.086	-21.31
-2.25	0.458	-6.78	13.00	0.158	-16.03	40.50	0.077	-22.27	68.00	0.082	-21.72
-2.00	0.531	-5.50	13.50	0.132	-17.59	41.00	0.073	-22.73	68.50	0.077	-22.27
-1.75	0.602	-4.41	14.00	0.102	-19.83	41.50	0.065	-23.74	69.00	0.071	-22.97
-1.50	0.670	-3.48	14.50	0.075	-22.50	42.00	0.055	-25.19	69.50	0.065	-23.74
-1.25	0.734	-2.69	15.00	0.064	-23.88	42.50	0.043	-27.33	70.00	0.058	-24.73
-1.00	0.792	-2.03	15.50	0.076	-22.38	43.00	0.031	-30.17	70.50	0.050	-26.02
-0.75	0.845	-1.46	16.00	0.097	-20.26	43.50	0.025	-32.04	71.00	0.043	-27.33
-0.50	0.891	-1.00	16.50	0.115	-18.79	44.00	0.028	-31.06	71.50	0.036	-28.87
-0.25	0.930	-0.63	17.00	0.126	-17.99	44.50	0.038	-28.40	72.00	0.029	-30.75
0.00	0.960	-0.35	17.50	0.127	-17.92	45.00	0.050	-26.02	72.50	0.022	-33.15
0.25	0.982	-0.16	18.00	0.119	-18.49	45.50	0.060	-24.44	73.00	0.016	-35.92
0.50	0.996	-0.03	18.50	0.104	-19.66	46.00	0.069	-23.22	73.50	0.011	-39.17
0.75	1.000	0.00	19.00	0.083	-21.62	46.50	0.074	-22.62	74.00	0.010	-40.00
1.00	0.996	-0.03	19.50	0.061	-24.29	47.00	0.077	-22.27	74.50	0.013	-37.72
1.25	0.982	-0.16	20.00	0.048	-26.38	47.50	0.076	-22.38	75.00	0.017	-35.39
1.50	0.961	-0.35	20.50	0.052	-25.68	48.00	0.072	-22.85	75.50	0.021	-33.56
1.75	0.931	-0.62	21.00	0.069	-23.22	48.50	0.066	-23.61	76.00	0.026	-31.70
2.00	0.893	-0.98	21.50	0.086	-21.31	49.00	0.057	-24.88	76.50	0.030	-30.46
2.25	0.849	-1.42	22.00	0.098	-20.18	49.50	0.046	-26.74	77.00	0.033	-29.63
2.50	0.799	-1.95	22.50	0.104	-19.66	50.00	0.035	-29.12	77.50	0.037	-28.64
2.75	0.744	-2.57	23.00	0.102	-19.83	50.50	0.025	-32.04	78.00	0.039	-28.18
3.00	0.686	-3.27	23.50	0.093	-20.63	51.00	0.021	-33.56	78.50	0.041	-27.74
3.25	0.625	-4.08	24.00	0.079	-22.05	51.50	0.026	-31.70	79.00	0.043	-27.33
3.50	0.562	-5.01	24.50	0.062	-24.15	52.00	0.037	-28.64	79.50	0.044	-27.13
3.75	0.500	-6.02	25.00	0.045	-26.94	52.50	0.048	-26.38	80.00	0.044	-27.13
4.00	0.439	-7.15	25.50	0.038	-28.40	53.00	0.058	-24.73	80.50	0.044	-27.13
4.25	0.383	-8.34	26.00	0.045	-26.94	53.50	0.067	-23.48	81.00	0.044	-27.13
4.50	0.332	-9.58	26.50	0.060	-24.44	54.00	0.074	-22.62	81.50	0.043	-27.33
4.75	0.291	-10.72	27.00	0.074	-22.62	54.50	0.079	-22.05	82.00	0.042	-27.54
5.00	0.261	-11.67	27.50	0.084	-21.51	55.00	0.081	-21.83	82.50	0.041	-27.74
5.25	0.245	-12.22	28.00	0.089	-21.01	55.50	0.081	-21.83	83.00	0.039	-28.18
5.50	0.241	-12.36	28.50	0.088	-21.11	56.00	0.078	-22.16	83.50	0.037	-28.64
5.75	0.247	-12.15	29.00	0.081	-21.83	56.50	0.073	-22.73	84.00	0.034	-29.37
6.00	0.259	-11.73	29.50	0.069	-23.22	57.00	0.066	-23.61	84.50	0.032	-29.90
6.25	0.273	-11.28	30.00	0.055	-25.19	57.50	0.058	-24.73	85.00	0.029	-30.75
6.50	0.287	-10.84	30.50	0.040	-27.96	58.00	0.048	-26.38	85.50	0.025	-32.04
6.75	0.298	-10.52	31.00	0.032	-29.90	58.50	0.037	-28.64	86.00	0.022	-33.15
7.00	0.305	-10.31	31.50	0.036	-28.87	59.00	0.026	-31.70	86.50	0.019	-34.42
7.25	0.307	-10.26	32.00	0.049	-26.20	59.50	0.017	-35.39	87.00	0.015	-36.48
7.50	0.305	-10.31	32.50	0.062	-24.15	60.00	0.014	-37.08	87.50	0.011	-39.17
7.75	0.298	-10.52	33.00	0.073	-22.73	60.50	0.021	-33.56	88.00	0.008	-41.94
8.00	0.287	-10.84	33.50	0.079	-22.05	61.00	0.031	-30.17	88.50	0.004	-47.96
8.25	0.272	-11.31	34.00	0.081	-21.83	61.50	0.042	-27.54	89.00	0.003	-50.46
8.50	0.252	-11.97	34.50	0.078	-22.16	62.00	0.053	-25.51	89.50	0.002	-53.98
8.75	0.230	-12.77	35.00	0.071	-22.97	62.50	0.062	-24.15	90.00	0.001	-60.00

Azimuth Vertical Pattern Tabulation

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0°	0.610	-4.29	90°	0.998	-0.02	180°	0.610	-4.29	270°	0.078	-22.16
2°	0.632	-3.99	92°	0.998	-0.02	182°	0.587	-4.63	272°	0.079	-22.05
4°	0.656	-3.66	94°	0.997	-0.03	184°	0.563	-4.99	274°	0.080	-21.94
6°	0.678	-3.38	96°	0.997	-0.03	186°	0.540	-5.35	276°	0.076	-22.38
8°	0.701	-3.09	98°	0.997	-0.03	188°	0.517	-5.73	278°	0.073	-22.73
10°	0.723	-2.82	100°	0.999	-0.01	190°	0.495	-6.11	280°	0.069	-23.22
12°	0.744	-2.57	102°	0.999	-0.01	192°	0.472	-6.52	282°	0.067	-23.48
14°	0.765	-2.33	104°	0.999	-0.01	194°	0.449	-6.96	284°	0.065	-23.74
16°	0.784	-2.11	106°	1.000	0.00	196°	0.428	-7.37	286°	0.065	-23.74
18°	0.804	-1.89	108°	0.999	-0.01	198°	0.407	-7.81	288°	0.065	-23.74
20°	0.822	-1.70	110°	0.999	-0.01	200°	0.386	-8.27	290°	0.065	-23.74
22°	0.841	-1.50	112°	0.999	-0.01	202°	0.367	-8.71	292°	0.070	-23.10
24°	0.857	-1.34	114°	0.999	-0.01	204°	0.348	-9.17	294°	0.076	-22.38
26°	0.873	-1.18	116°	0.999	-0.01	206°	0.329	-9.66	296°	0.083	-21.62
28°	0.888	-1.03	118°	0.999	-0.01	208°	0.311	-10.14	298°	0.089	-21.01
30°	0.902	-0.90	120°	0.998	-0.02	210°	0.293	-10.66	300°	0.098	-20.18
32°	0.914	-0.78	122°	0.996	-0.03	212°	0.276	-11.18	302°	0.106	-19.49
34°	0.926	-0.67	124°	0.995	-0.04	214°	0.263	-11.60	304°	0.117	-18.64
36°	0.937	-0.57	126°	0.992	-0.07	216°	0.249	-12.08	306°	0.130	-17.72
38°	0.946	-0.48	128°	0.990	-0.09	218°	0.235	-12.58	308°	0.142	-16.95
40°	0.956	-0.39	130°	0.986	-0.12	220°	0.221	-13.11	310°	0.155	-16.19
42°	0.963	-0.33	132°	0.982	-0.16	222°	0.206	-13.72	312°	0.167	-15.55
44°	0.969	-0.27	134°	0.976	-0.21	224°	0.191	-14.38	314°	0.179	-14.94
46°	0.976	-0.21	136°	0.969	-0.27	226°	0.179	-14.94	316°	0.191	-14.38
48°	0.982	-0.16	138°	0.963	-0.33	228°	0.167	-15.55	318°	0.206	-13.72
50°	0.986	-0.12	140°	0.956	-0.39	230°	0.155	-16.19	320°	0.221	-13.11
52°	0.990	-0.09	142°	0.946	-0.48	232°	0.142	-16.95	322°	0.235	-12.58
54°	0.992	-0.07	144°	0.937	-0.57	234°	0.130	-17.72	324°	0.249	-12.08
56°	0.995	-0.04	146°	0.926	-0.67	236°	0.117	-18.64	326°	0.263	-11.60
58°	0.996	-0.03	148°	0.914	-0.78	238°	0.106	-19.49	328°	0.276	-11.18
60°	0.998	-0.02	150°	0.902	-0.90	240°	0.098	-20.18	330°	0.293	-10.66
62°	0.999	-0.01	152°	0.888	-1.03	242°	0.089	-21.01	332°	0.311	-10.14
64°	0.999	-0.01	154°	0.873	-1.18	244°	0.083	-21.62	334°	0.329	-9.66
66°	0.999	-0.01	156°	0.857	-1.34	246°	0.076	-22.38	336°	0.348	-9.17
68°	0.999	-0.01	158°	0.841	-1.50	248°	0.070	-23.10	338°	0.367	-8.71
70°	0.999	-0.01	160°	0.822	-1.70	250°	0.065	-23.74	340°	0.386	-8.27
72°	0.999	-0.01	162°	0.804	-1.89	252°	0.065	-23.74	342°	0.407	-7.81
74°	1.000	0.00	164°	0.784	-2.11	254°	0.065	-23.74	344°	0.428	-7.37
76°	0.999	-0.01	166°	0.765	-2.33	256°	0.065	-23.74	346°	0.449	-6.96
78°	0.999	-0.01	168°	0.744	-2.57	258°	0.067	-23.48	348°	0.472	-6.52
80°	0.999	-0.01	170°	0.723	-2.82	260°	0.069	-23.22	350°	0.495	-6.11
82°	0.997	-0.03	172°	0.701	-3.09	262°	0.073	-22.73	352°	0.517	-5.73
84°	0.997	-0.03	174°	0.678	-3.38	264°	0.076	-22.38	354°	0.540	-5.35
86°	0.997	-0.03	176°	0.656	-3.66	266°	0.080	-21.94	356°	0.563	-4.99
88°	0.998	-0.02	178°	0.632	-3.99	268°	0.079	-22.05	358°	0.587	-4.63