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W214AV to New Coordinates and Channel
Illinois Bible Institute, Inc.

REFERENCE CH# 212D - 90.3 MHz, Pwr= 0.055 kW, HAAT= 51.7 M, COR= 242 M DISPLAY DATES
39 39 58.0 N. Average Protected F(50-50)= 6.36 km DATA 05-30-17
90 15 30.0 W. Omni-directional SEARCH 05-30-17

CH CALL / CITY	TYPE ANT / STATE	AZI / <--	DIST / FILE #	LAT / LNG	PWR(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / LICENSEE	*OUT* (Overlap in km)
214D W214AV	LIC _C_	22.2	8.47	39 44 12.0	0.055	0.5	5.1	2.8
Jacksonville	IL	202.3	BLFT19990823AAE	90 13 15.0	39	226	Illinois Bible Institute,	
211A WLLM-FM	LIC _C_	132.0	52.49	39 20 58.0	5.000	39.7	25.9	18.9
Carlinville	IL	312.3	BLED20010302AAX	89 48 16.0	90	286	Cornerstone Community Radi	
209B1 WLUJ	LIC DC_	73.5	56.40	39 48 30.0	20.000	3.6	35.2	20.6
Springfield	IL	253.9	BLED20010828AAQ	89 37 30.0	100	270	Cornerstone Community Radi	
213A WSCT	LIC _C_	92.0	63.74	39 38 38.0	3.800	42.9	28.0	27.7
Springfield	IL	272.5	BLED20001213ABN	89 30 51.0	125	303	Illinois Bible Institute	
212B WQUB	LIC _CN	288.8	101.83	39 57 22.0	28.000	115.4	39.0	40.5
Quincy	IL	108.1	BLED19970916KF	91 23 22.0	127	300	The Curators Of The Univer	
From channel 212B1								
214C1 KWMU	LIC _C_	182.9	120.84	38 34 50.0	100.000	9.7	70.3	50.1
St. Louis	MO	2.9	BLED20010706AAR	90 19 45.0	289	444	The Curators Of The Univer	
210A WLCA	LIC DCX	176.2	79.88	38 56 57.0	1.500	1.7	19.4	58.8
Godfrey	IL	356.2	BLED20050622AAA	90 11 47.0	120	276	Lewis & Clark Community Co	
210B WCBU	LIC _CX	28.4	121.98	40 37 44.0	26.500	6.1	53.7	67.8
Peoria	IL	208.9	BLED20051201AKD	89 34 12.0	197	386	Bradley University	
215B WILL-FM	LIC _CN	72.5	141.78	40 02 18.0	105.000	9.7	70.1	71.2
Urbana	IL	253.5	BLED757	88 40 10.0	259	469	The Board Of Trustees Of T	
GRANDFATHERED AT 105 KW @ 259 M HAAT.								

Terrain database is GLOBE 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
Incoming contour overlap is ignored.
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

HOW TO READ THE FM COMPUTER PRINT-OUT

Translator Reference Station

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labeled "* OUT *" shows the greatest distance in kilometers of overlap (or smallest distance of clearance) between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap. Since translators are able to receive interference there is no “In” or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the "AZI" column, the first row of numbers indicate the True North azimuths from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station. Bearings are calculated using spherical trigonometry.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the minimum spacings the "OUT" columns change its significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column displays the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. “Z” indicates a 73.215 directional. An “N” indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an “X” if the commission is not sure, otherwise it will be an “N” or left blank.

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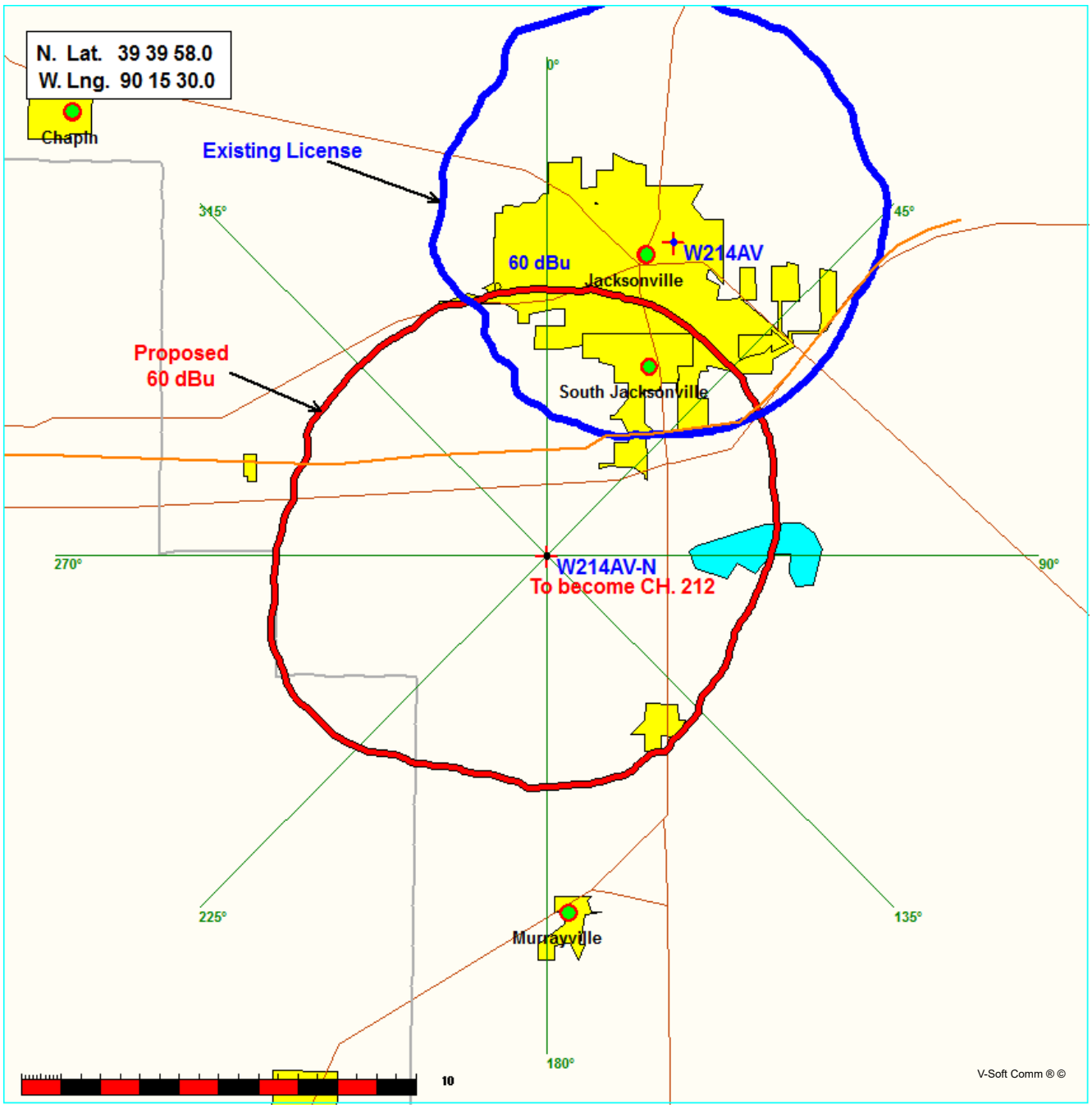
Illinois Bible Institute, Inc.

Coverage Study - GLOBE 30 Sec
05-30-2017



N. Lat. = 39-39-58.0   W. Lng. = 90-15-30.0
HAAT and Distance to Contour as proposed
FCC, FM 2-10 Mi, 51 pts Method - GLOBE 30 SEC

Distance to Contour Table - CH 212 - Previous W214AV

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	185.5	56.5	0.0550	-12.60	1.000	6.65
030	183.9	58.1	0.0550	-12.60	1.000	6.74
060	189.8	52.2	0.0550	-12.60	1.000	6.39
090	200.6	41.4	0.0550	-12.60	1.000	5.68
120	206.1	35.9	0.0550	-12.60	1.000	5.28
150	200.3	41.7	0.0550	-12.60	1.000	5.70
180	198.6	43.4	0.0550	-12.60	1.000	5.81
210	195.0	47.0	0.0550	-12.60	1.000	6.05
240	173.7	68.3	0.0550	-12.60	1.000	7.28
270	181.9	60.1	0.0550	-12.60	1.000	6.85
300	182.6	59.4	0.0550	-12.60	1.000	6.81
330	185.5	56.5	0.0550	-12.60	1.000	6.65

Ave El= 190.29 M HAAT= 51.71 M AMSL= 242.0

N. Lat. = 39-44-12.0   W. Lng. = 90-13-15.0
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - GLOBE 30 SEC

W214AV, Illinois Bible Institute, Inc, BLFT19990823AAE
Existing Facility

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	178.2	47.8	0.0550	-12.60	1.000	6.11
030	180.1	45.9	0.0550	-12.60	1.000	5.98
060	188.8	37.2	0.0550	-12.60	1.000	5.37
090	190.1	35.9	0.0550	-12.60	1.000	5.28
120	197.5	28.5	0.0550	-12.60	1.000	4.83
150	199.3	26.7	0.0550	-12.60	1.000	4.83
180	198.2	27.8	0.0550	-12.60	1.000	4.83
210	191.2	34.8	0.0550	-12.60	1.000	5.19
240	190.0	36.0	0.0550	-12.60	1.000	5.29
270	178.6	47.4	0.0550	-12.60	1.000	6.08
300	179.9	46.1	0.0550	-12.60	1.000	5.99
330	174.7	51.3	0.0550	-12.60	1.000	6.33

Ave El= 187.22 M HAAT= 38.78 M AMSL= 226 M