

ATTACHMENT NUMBER 11

**COMPREHENSIVE TECHNICAL EXHIBIT**

COVERING EXHIBITS 11-18  
APPLICATION FOR MINOR MODIFICATION OF CONSTRUCTION PERMIT  
FCC FILE NO. BMJP-20050114AEE  
SYCAMORE, ILLINOIS  
1180 KHZ 0.9KW DAY  
FACILITY ID: 16545  
TO ADD NIGHT TIME OPERATION AND  
CORRECT DAYTIME TOWER COORDINATE TYPO

GENERAL

DeKalb County Broadcasters, Inc. (DCB) has prepared this engineering report, FCC Form 301, and the attached engineering exhibits in support of an Application to Modify Construction Permit (FCC BMJP-20050114AEE) to add night time operation at 0.001 Kw and correct daytime tower coordinates.

It was discovered in preparing this night time application that the daytime antenna coordinates on the current WSQR 1180 kHz construction permit (BMJP-20050114AEE) are incorrect. In researching the issue we have found that BMJP-20040130BCR shows the coordinates of 42-00-24 88-40-40 which are identical to WSQR's licensed coordinates authorized in BL-19960313AB. In BMJP-20050114AEE, the Form 301 Tech Box shows 42-0-24 88-40-4, the "0" was inadvertently omitted after the 4. The CP issued in BMJP-20050114AEE shows 42-00-24 88-40-04. It should be corrected to show 42-00-24 88-40-40. All calculations for maps, contours, population and city grade coverage submitted with BMJP-20050114AEE are based on the licensed WSQR tower coordinates of 42-00-24 88-40-40.

It is respectfully requested that the antenna coordinates for the daytime CP be corrected to reflect 42-00-24 88-40-40 as shown in this application. This is the currently licensed WSQR antenna site, see BL-19960313AB. The applicant proposes to use its licensed tower site.

Currently WSQR operates on 1560kHz as a daytime station. Utilizing the same transmitter site, same tower, ground system, transmitter building WSQR has been issued a Construction Permit BMJP-20050114AEE to change frequency to 1180 kHz operating with 0.9kW days only. This application is to request WSQR be granted night authority on 1180 kHz at 0.001 Kw during night time hours. WSQR proposes to use the daytime facilities specified currently in use. No site photos, aerials, plats have been included as this is the existing WSQR transmitter site.

WHAM, Rochester is the 1A station operating at night on 1180 kHz. Attached you will find the DataWorld study on "Permissible Radiation Limits" for 1180 kHz at night. WHAM is the controlling night time protection requirement WSQR has utilizing it's non-directional daytime antenna system. The maximum radiation level is: 7.9 mv/m at 79 degrees T North between 39.5 and 53.8 degrees Theta to 92 degrees T North between 39.5 and 53.9 degrees Theta. Utilizing the current daytime radiator of 80.78 degrees at 1180 kHz, input power of 0.00133 Kw would radiate 7.894 mv/m at 39.8 degrees and 5.841 mv/m at 53 degrees. Applying the FCC rules for rounding in 73.150 and 73.160 the power we are requesting is 0.001 Kw.

No persons live in the 1,000 mv/m contour. No city coverage map is included as none is required for Daytime operation of less than .025kW at night.

## ENVIRONMENTAL EFFECTS

The proposed operation is in compliance with OET Bulletin No. 65. Full protection is afforded by the proposal. Workers and the general public are not exposed to high radiation at station WSQR. The tower is in a rural location, properly enclosed by a locked security fence, and RF warning signs are posted. WSQR will operate with transmitter power of 900W Day, 0.001kW Night. The shortest distance between the fence and the tower is over 10 feet. The station is in compliance with the radio frequency protection guides of the American National Standards Institute, and OET Bulletin 65, including the reduction or cessation of transmitter power when persons have access to the fenced tower area. The station complies with Section 1.1307 of the commission's rules, with the sole exception that the transmitter site is located in a flood plain, however, the tower site has been at this location since the station first went on the air in 1981. The licensee has never known it to have been a source of controversy in the local community due to it being located in a flood plain or to have caused any adverse impact on the community. Grant of the station's application will not result in a significant environmental impact.

Larry Nelson  
President  
WSQR  
DeKalb County Broadcasters, Inc.  
February 2006  
FCC License PG-18-9128  
Douglas Nelson  
Groundwave, Inc.  
FCC License PG00016571

**Dataworld**  
**Bethesda, MD**

Permissible Radiation Limit Summary

**Title: 1180 kHz Sycamore IL**

Frequency: 1180 kHz  
Database: FCC

Latitude: N 42° 00' 24.0"  
Longitude: W 88° 40' 40.0"

Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)	Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)
32	WHAM-295	Rochester	NY	16.7	26.9	21.5	69	WHAM-044	Rochester	NY	4.7	9.4	193.7
	WHAM-297	Rochester	NY	15.8	25.6	23.2		WHAM-063	Rochester	NY	1.9	5.4	198.1
	WHAM-299	Rochester	NY	15.0	24.5	25.0		WHAM-052	Rochester	NY	4.0	8.4	215.8
	WHAM-301	Rochester	NY	14.2	23.4	26.8	70	WHAM-065	Rochester	NY	1.8	5.3	199.0
	WHAM-304	Rochester	NY	13.2	22.0	29.7		WHAM-056	Rochester	NY	3.6	7.8	220.5
	WHAM-307	Rochester	NY	12.3	20.7	32.8	71	WHAM-268	Rochester	NY	38.5	52.8	8.1
33	WHAM-291	Rochester	NY	18.7	29.7	18.5		WHAM-044	Rochester	NY	5.3	10.3	147.6
	WHAM-293	Rochester	NY	17.7	28.2	20.0		WHAM-067	Rochester	NY	1.8	5.3	199.7
	WHAM-308	Rochester	NY	12.1	20.3	34.2	72	WHAM-043	Rochester	NY	5.4	10.4	140.0
34	WHAM-289	Rochester	NY	19.9	31.3	17.0		WHAM-070	Rochester	NY	1.7	5.2	200.6
	WHAM-309	Rochester	NY	11.8	19.8	36.8	73	WHAM-043	Rochester	NY	5.8	11.0	102.0
35	WHAM-287	Rochester	NY	21.2	33.0	15.7		WHAM-072	Rochester	NY	1.7	5.1	200.9
	WHAM-308	Rochester	NY	12.0	20.2	36.3	74	WHAM-044	Rochester	NY	5.9	11.1	114.2
36	WHAM-286	Rochester	NY	21.9	33.9	15.1		WHAM-308	Rochester	NY	7.9	14.1	151.1
37	WHAM-284	Rochester	NY	23.3	35.8	13.9		WHAM-075	Rochester	NY	1.6	5.0	201.2
38	WHAM-283	Rochester	NY	24.1	36.8	13.3		WHAM-337	Rochester	NY	7.3	13.1	410.0
39	WHAM-282	Rochester	NY	25.0	37.9	12.8	75	WHAM-267	Rochester	NY	39.1	53.4	8.0
40	WHAM-281	Rochester	NY	25.9	39.0	12.3		WHAM-047	Rochester	NY	6.0	11.3	146.1
41	WHAM-280	Rochester	NY	26.8	40.1	11.8		WHAM-078	Rochester	NY	1.6	5.0	201.2
43	WHAM-279	Rochester	NY	27.7	41.2	11.4		WHAM-342	Rochester	NY	7.2	13.0	463.3
44	WHAM-278	Rochester	NY	28.7	42.4	10.9	76	WHAM-079	Rochester	NY	1.6	4.9	201.1
46	WHAM-277	Rochester	NY	29.7	43.6	10.5	77	WHAM-081	Rochester	NY	1.8	5.3	207.5
48	WHAM-276	Rochester	NY	30.8	44.7	10.1	78	WHAM-084	Rochester	NY	2.1	5.7	213.8
50	WHAM-275	Rochester	NY	31.8	45.9	9.8	79	WHAM-266	Rochester	NY	39.5	53.8	7.9
52	WHAM-274	Rochester	NY	32.9	47.1	9.4		WHAM-086	Rochester	NY	2.2	5.8	215.7
55	WHAM-273	Rochester	NY	34.0	48.2	9.1	80	WHAM-089	Rochester	NY	2.3	5.9	217.2
57	WHAM-272	Rochester	NY	35.0	49.3	8.9	81	WHAM-093	Rochester	NY	2.2	5.8	214.2
60	WHAM-271	Rochester	NY	36.0	50.4	8.6	82	WOWO-011	Fort Wayne	IN	24.6	37.4	127.9
61	PERCE	Perce	Cn	.8	.8	5990.0		WOWO-015	Fort Wayne	IN	23.8	36.4	133.1
	PERCE	Perce	Cn	.8	.8	5990.0		WHAM-094	Rochester	NY	2.3	5.9	215.6
64	WHAM-270	Rochester	NY	36.9	51.3	8.4	83	WOWO-003	Fort Wayne	IN	26.3	39.6	118.4
65	ST. JOHN	St. John's	Cn	.0	.0	3443.8		WOWO-007	Fort Wayne	IN	25.5	38.5	123.0
67	WHAM-269	Rochester	NY	37.8	52.1	8.3		WOWO-018	Fort Wayne	IN	23.2	35.7	136.8
68	WHAM-061	Rochester	NY	1.9	5.4	197.1		WOWO-023	Fort Wayne	IN	22.4	34.6	143.0
								WHAM-098	Rochester	NY	2.2	5.8	211.4

**Dataworld**  
**Bethesda, MD**

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Longitude: W 88° 40' 40.0"

Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)	Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)
84	WHAM-265	Rochester	NY	39.7	54.0	7.9	93	WOWO-337	Fort Wayne	IN	30.9	44.9	99.4
	WOWO-359	Fort Wayne	IN	27.2	40.6	114.3		WOWO-060	Fort Wayne	IN	18.0	28.7	185.8
	WOWO-025	Fort Wayne	IN	22.0	34.2	145.5		WHAM-134	Rochester	NY	4.0	8.3	196.6
	WHAM-099	Rochester	NY	1.8	5.3	202.7		WWVA-008	Wheeling	WV	10.6	18.1	364.8
85	WOWO-355	Fort Wayne	IN	28.0	41.6	110.5	94	WOWO-334	Fort Wayne	IN	31.3	45.4	98.1
	WOWO-030	Fort Wayne	IN	21.3	33.2	151.7		WOWO-063	Fort Wayne	IN	17.8	28.5	188.0
	WOWO-038	Fort Wayne	IN	19.8	31.2	165.8		WHAM-134	Rochester	NY	3.8	8.0	194.3
	WHAM-101	Rochester	NY	1.8	5.3	200.5		WWVA-358	Wheeling	WV	11.0	18.8	345.0
86	WOWO-352	Fort Wayne	IN	28.6	42.3	107.9	95	WWVA-021	Wheeling	WV	10.0	17.2	393.0
	WOWO-036	Fort Wayne	IN	20.4	32.0	159.7		WOWO-331	Fort Wayne	IN	31.7	45.8	96.9
	WOWO-040	Fort Wayne	IN	19.6	30.9	168.0		WHAM-137	Rochester	NY	3.8	8.0	188.8
	WHAM-104	Rochester	NY	1.8	5.3	198.5		WOWO-066	Fort Wayne	IN	17.6	28.2	190.0
87	WOWO-350	Fort Wayne	IN	29.0	42.7	106.4	96	WWVA-351	Wheeling	WV	11.3	19.2	333.7
	WOWO-043	Fort Wayne	IN	19.3	30.5	171.1		WWVA-031	Wheeling	WV	9.6	16.6	411.6
	WHAM-105	Rochester	NY	1.8	5.2	196.5		WOWO-329	Fort Wayne	IN	31.9	46.0	96.2
	WHAM-108	Rochester	NY	2.5	6.3	210.2		WHAM-139	Rochester	NY	3.8	8.0	184.7
88	WHAM-264	Rochester	NY	39.7	54.0	7.9	97	WOWO-069	Fort Wayne	IN	17.4	27.9	192.6
	WOWO-347	Fort Wayne	IN	29.5	43.3	104.4		WWVA-346	Wheeling	WV	11.5	19.4	327.4
	WOWO-046	Fort Wayne	IN	19.0	30.1	174.0		WWVA-041	Wheeling	WV	9.2	16.1	429.6
	WHAM-111	Rochester	NY	2.6	6.3	207.4		WHAM-262	Rochester	NY	39.1	53.5	8.0
89	WHAM-116	Rochester	NY	3.3	7.4	214.5	98	WOWO-327	Fort Wayne	IN	32.1	46.2	95.7
	WOWO-345	Fort Wayne	IN	29.9	43.7	103.2		WHAM-141	Rochester	NY	3.8	8.0	180.9
	WOWO-049	Fort Wayne	IN	18.8	29.8	176.8		WOWO-072	Fort Wayne	IN	17.3	27.7	194.9
	WHAM-115	Rochester	NY	2.8	6.7	207.7		WWVA-341	Wheeling	WV	11.6	19.6	322.7
90	WHAM-120	Rochester	NY	3.6	7.7	211.9	99	WWVA-052	Wheeling	WV	8.9	15.5	449.2
	WOWO-343	Fort Wayne	IN	30.1	44.0	102.1		WOWO-324	Fort Wayne	IN	32.3	46.5	95.0
	WOWO-052	Fort Wayne	IN	18.5	29.4	179.5		WHAM-144	Rochester	NY	3.9	8.2	176.1
	WHAM-119	Rochester	NY	3.1	7.0	206.8		WOWO-075	Fort Wayne	IN	17.1	27.5	197.0
91	WOWO-341	Fort Wayne	IN	30.4	44.3	101.2	99	WWVA-337	Wheeling	WV	11.6	19.6	320.4
	WOWO-055	Fort Wayne	IN	18.3	29.2	182.0		WWVA-060	Wheeling	WV	8.7	15.2	461.7
	WHAM-124	Rochester	NY	3.4	7.4	204.3		WOWO-322	Fort Wayne	IN	32.5	46.6	94.5
	WHAM-263	Rochester	NY	39.5	53.9	7.9		WHAM-146	Rochester	NY	3.9	8.2	172.1
92	WOWO-339	Fort Wayne	IN	30.6	44.6	100.4	99	WOWO-078	Fort Wayne	IN	17.0	27.3	199.0
	WOWO-058	Fort Wayne	IN	18.1	28.9	184.3		WWVA-332	Wheeling	WV	11.7	19.7	319.0
	WHAM-131	Rochester	NY	3.9	8.2	200.3		WWVA-068	Wheeling	WV	8.5	14.9	472.3

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100	WOWO-320	Fort Wayne	IN	32.6	46.8	94.1	105	WHAM-260	Rochester	NY	37.8	52.2	8.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-155	Rochester	NY	4.6	9.2	164.0		WOWO-311	Fort Wayne	IN	32.4	46.5	94.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-081	Fort Wayne	IN	16.8	27.1	200.8		WHAM-166	Rochester	NY	4.9	9.7	140.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-331	Wheeling	WV	11.7	19.7	319.0		WHAM-157	Rochester	NY	3.9	8.3	145.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-075	Wheeling	WV	8.3	14.7	480.0		WOWO-096	Fort Wayne	IN	16.2	26.2	209.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
101	WHAM-261	Rochester	NY	38.6	52.9	8.1	106	WWVA-303	Wheeling	WV	11.1	18.8	337.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-318	Fort Wayne	IN	32.8	47.0	93.6		WWVA-111	Wheeling	WV	8.1	14.3	492.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-155	Rochester	NY	4.4	9.0	161.0		WOWO-308	Fort Wayne	IN	32.2	46.3	95.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-084	Fort Wayne	IN	16.7	26.9	202.5		WHAM-166	Rochester	NY	4.8	9.5	137.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-327	Wheeling	WV	11.6	19.6	319.5		WHAM-158	Rochester	NY	3.9	8.3	142.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
102	WWVA-081	Wheeling	WV	8.2	14.6	485.4	107	WOWO-099	Fort Wayne	IN	16.0	25.9	213.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-316	Fort Wayne	IN	32.7	46.8	93.8		WWVA-286	Wheeling	WV	10.8	18.4	346.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-164	Rochester	NY	5.1	10.0	151.0		WWVA-117	Wheeling	WV	8.1	14.4	489.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-152	Rochester	NY	4.0	8.4	160.5		WOWO-306	Fort Wayne	IN	32.1	46.2	95.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-087	Fort Wayne	IN	16.6	26.7	204.1		WHAM-166	Rochester	NY	4.6	9.3	134.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
103	WWVA-323	Wheeling	WV	11.6	19.5	321.2	108	WOWO-102	Fort Wayne	IN	15.8	25.6	216.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-088	Wheeling	WV	8.2	14.5	490.0		WWVA-256	Wheeling	WV	10.8	18.4	347.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-315	Fort Wayne	IN	32.6	46.8	94.0		WWVA-124	Wheeling	WV	8.3	14.6	476.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-166	Rochester	NY	5.2	10.1	146.6		WHAM-259	Rochester	NY	37.0	51.4	8.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-155	Rochester	NY	4.2	8.6	155.8		WOWO-303	Fort Wayne	IN	31.9	46.0	95.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
104	WOWO-090	Fort Wayne	IN	16.5	26.6	205.7	109	WHAM-165	Rochester	NY	4.4	8.9	131.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-318	Wheeling	WV	11.5	19.4	324.7		WOWO-105	Fort Wayne	IN	15.5	25.3	220.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-094	Wheeling	WV	8.1	14.4	492.6		WWVA-225	Wheeling	WV	10.5	17.9	359.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-313	Fort Wayne	IN	32.5	46.6	94.4		WWVA-132	Wheeling	WV	8.4	14.9	465.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-165	Rochester	NY	4.9	9.7	143.8		WOWO-300	Fort Wayne	IN	31.8	45.9	96.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WHAM-155	Rochester	NY	4.0	8.4	151.8	110	WHAM-164	Rochester	NY	4.2	8.7	130.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WOWO-093	Fort Wayne	IN	16.3	26.4	207.3		WOWO-107	Fort Wayne	IN	15.3	25.0	223.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-311	Wheeling	WV	11.3	19.1	330.2		WWVA-211	Wheeling	WV	10.4	17.8	363.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	WWVA-105	Wheeling	WV	8.1	14.3	493.8		WWVA-141	Wheeling	WV	8.6	15.2	452.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
								WOWO-295	Fort Wayne	IN	32.2	46.3	95.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

**Dataworld**  
**Bethesda, MD**

Permissible Radiation Limit Summary

**Title: 1180 kHz Sycamore IL**

Frequency: 1180 kHz  
Database: FCC

Latitude: N 42° 00' 24.0"  
Longitude: W 88° 40' 40.0"

Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)	Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)
111	WOWO-292	Fort Wayne	IN	32.7	46.8	93.7	121	WHAM-175	Rochester	NY	3.8	8.1	93.8
	WHAM-166	Rochester	NY	4.2	8.6	124.3		WOWO-255	Fort Wayne	IN	29.7	43.5	102.9
	WOWO-114	Fort Wayne	IN	14.4	23.6	241.9		WOWO-138	Fort Wayne	IN	15.0	24.5	227.5
	WOWO	Fort Wayne	IN	25.0	38.0	248.7	122	WHAM-177	Rochester	NY	3.9	8.3	90.8
	WOWO	Fort Wayne	IN	25.0	38.0	248.8		WOWO-226	Fort Wayne	IN	26.4	39.6	116.3
112	WWVA-185	Wheeling	WV	9.9	17.0	383.9	123	WOWO-141	Fort Wayne	IN	15.1	24.7	224.4
	WHAM-258	Rochester	NY	36.0	50.4	8.5		WHAM-254	Rochester	NY	31.7	45.7	9.6
	WOWO-290	Fort Wayne	IN	32.8	47.0	93.3		WHAM-179	Rochester	NY	4.1	8.5	87.8
	WHAM-166	Rochester	NY	4.0	8.3	120.6		WOWO-224	Fort Wayne	IN	26.3	39.6	116.6
	WOWO-116	Fort Wayne	IN	14.4	23.6	241.5		WOWO-143	Fort Wayne	IN	15.2	24.9	222.3
113	WOWO-288	Fort Wayne	IN	32.7	46.9	93.4	124	WHAM-181	Rochester	NY	4.3	8.8	84.9
	WOWO-119	Fort Wayne	IN	14.4	23.7	240.6		WOWO-223	Fort Wayne	IN	26.3	39.5	116.8
	WOWO-286	Fort Wayne	IN	32.6	46.8	93.7		WOWO-146	Fort Wayne	IN	15.4	25.1	219.1
114	WHAM-167	Rochester	NY	3.7	8.0	113.3	125	WHAM-253	Rochester	NY	30.5	44.5	10.0
	WOWO-121	Fort Wayne	IN	14.4	23.7	239.8		WHAM-183	Rochester	NY	4.5	9.0	82.0
	WHAM-257	Rochester	NY	35.0	49.3	8.8		WOWO-222	Fort Wayne	IN	26.2	39.4	117.0
115	WOWO-280	Fort Wayne	IN	30.8	44.7	99.3		WOWO-149	Fort Wayne	IN	15.6	25.4	215.6
	WOWO-123	Fort Wayne	IN	14.5	23.8	238.8	126	WHAM-186	Rochester	NY	4.8	9.5	77.7
	WOWO-274	Fort Wayne	IN	30.1	44.0	101.4		WOWO-221	Fort Wayne	IN	26.2	39.3	117.4
116	WHAM-167	Rochester	NY	3.4	7.5	108.2		WOWO-151	Fort Wayne	IN	15.7	25.6	213.1
	WOWO-126	Fort Wayne	IN	14.5	23.8	237.2	127	WHAM-252	Rochester	NY	29.4	43.2	10.4
	WOWO-268	Fort Wayne	IN	29.6	43.4	103.3		WHAM-188	Rochester	NY	5.0	9.8	74.8
117	WHAM-167	Rochester	NY	3.3	7.3	106.8		WOWO-219	Fort Wayne	IN	25.9	39.1	118.4
	WOWO-128	Fort Wayne	IN	14.6	23.9	235.8		WOWO-154	Fort Wayne	IN	16.0	25.9	209.2
	WHAM-256	Rochester	NY	33.9	48.2	9.0	128	WHAM-251	Rochester	NY	28.3	42.0	10.8
118	WHAM-169	Rochester	NY	3.3	7.4	102.7		WHAM-190	Rochester	NY	5.2	10.1	72.0
	WOWO-262	Fort Wayne	IN	29.1	42.9	105.0		WOWO-216	Fort Wayne	IN	25.6	38.6	120.2
	WOWO-131	Fort Wayne	IN	14.7	24.1	233.7		WOWO-157	Fort Wayne	IN	16.2	26.2	205.2
119	WHAM-171	Rochester	NY	3.5	7.6	99.7	129	WHAM-192	Rochester	NY	5.4	10.4	69.2
	WOWO-258	Fort Wayne	IN	29.3	43.0	104.3		WOWO-213	Fort Wayne	IN	25.1	38.1	122.4
	WOWO-133	Fort Wayne	IN	14.8	24.2	232.1		WOWO-160	Fort Wayne	IN	16.5	26.6	200.9
120	WHAM-255	Rochester	NY	32.8	47.0	9.3	130	WHAM-250	Rochester	NY	27.3	40.7	11.2
	WHAM-173	Rochester	NY	3.6	7.8	96.7		WHAM-195	Rochester	NY	5.8	11.0	65.1
	WOWO-257	Fort Wayne	IN	29.5	43.3	103.4		WOWO-212	Fort Wayne	IN	25.0	37.9	123.3
	WOWO-136	Fort Wayne	IN	14.9	24.4	229.4		WOWO-164	Fort Wayne	IN	16.9	27.2	194.9

**Dataworld**  
**Bethesda, MD**

Permissible Radiation Limit Summary

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Latitude: N 42° 00' 24.0"  
Longitude: W 88° 40' 40.0"

Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)	Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)
131	WHAM-249	Rochester	NY	26.3	39.5	11.7	162	-2000020	Plano	IL	71.3	78.4	58.4
	WHAM-197	Rochester	NY	6.1	11.4	62.4		960805AA	Havana	FL	3.2	7.3	549.3
	WOWO-210	Fort Wayne	IN	24.6	37.4	125.3		960805AA	Havana	FL	3.2	7.3	549.3
	WOWO-167	Fort Wayne	IN	17.2	27.7	190.2	168	WACV	Montgomery	AL	5.1	10.0	1668.7
132	WHAM-200	Rochester	NY	6.5	12.0	58.4	171	-2004012	Georgiana	AL	4.4	9.0	5817.3
	WOWO-208	Fort Wayne	IN	24.2	36.9	127.6	173	-2000020	Pace	FL	3.6	7.8	536.9
	WOWO-171	Fort Wayne	IN	17.7	28.4	183.7		-2001070	Pace	FL	3.6	7.7	539.4
133	WHAM-248	Rochester	NY	25.3	38.3	12.1	177	HRNQ 2	Tegucigalpa	Ho	.0	.0	6049.3
	WHAM-202	Rochester	NY	6.8	12.4	55.8	179	TGT-058	Sonora	Gt	.0	.0	707.3
	WOWO-206	Fort Wayne	IN	23.8	36.4	129.9	180	TGT-054	Sonora	Gt	.0	.0	704.2
	WOWO-176	Fort Wayne	IN	18.4	29.3	175.3	181	TGT-022	Sonora	Gt	.0	.0	543.9
134	WHAM-247	Rochester	NY	24.4	37.1	12.6	182	TGT-015	Sonora	Gt	.0	.0	537.6
	WHAM-205	Rochester	NY	7.3	13.1	51.9	183	TGT-012	Sonora	Gt	.0	.0	535.8
	WOWO-202	Fort Wayne	IN	23.1	35.5	134.7	184	TGT-007	Sonora	Gt	.0	.0	538.4
	WOWO-184	Fort Wayne	IN	19.7	31.0	161.8	185	TGT-359	Sonora	Gt	.0	.0	541.1
135	WHAM-246	Rochester	NY	23.5	36.0	13.2	186	TGT-344	Sonora	Gt	.0	.0	602.2
	WHAM-208	Rochester	NY	7.8	13.9	48.2	187	WJNT	Pearl	MS	5.1	9.9	324.8
	WOWO-194	Fort Wayne	IN	21.5	33.5	145.7		TGT-326	Sonora	Gt	.0	.0	747.0
136	WHAM-245	Rochester	NY	22.6	34.9	13.7	188	TGT-297	Sonora	Gt	.0	.0	816.4
	WHAM-244	Rochester	NY	21.8	33.9	14.3	194	XEAH1	Juchitan	Mx	.0	.0	7142.8
	WHAM-211	Rochester	NY	8.4	14.8	44.6	198	KRFT	University City	MO	19.6	31.0	496.1
137	WHAM-243	Rochester	NY	21.1	32.9	14.9		XEGN1	Piedras Negras	Mx	.0	.0	4766.8
	WHAM-214	Rochester	NY	9.0	15.7	41.1	199	KRFT	University City	MO	18.0	28.7	522.1
138	WHAM-242	Rochester	NY	20.3	31.9	15.6	202	-2004013	Sherwood	AR	7.5	13.5	1574.7
	WHAM-218	Rochester	NY	9.9	17.1	36.6	204	XEFR	Magdalena Mixhuca	Mx	.0	.0	2692.3
139	WHAM-240	Rochester	NY	19.0	30.0	16.9		XEFR1	Magdalena Mixhuca	Mx	.0	.0	2692.3
	WHAM-222	Rochester	NY	11.0	18.7	32.4	206	KGOL	Humble	TX	2.4	6.1	543.1
140	WHAM-237	Rochester	NY	17.1	27.5	19.0		KGOL	Humble	TX	2.4	6.1	543.1
149	CMJW	Mayari Arrib	Cu	.0	.0	4316.0	210	XEIRG	Irapuato	Mx	.0	.0	2570.6
154	WAVS	Davie	FL	.0	2.7	9928.7	216	KFAQ-139	Tulsa	OK	6.7	12.3	544.2
156	-2000020	Lizella	GA	4.9	9.7	512.1		KFAQ-157	Tulsa	OK	6.0	11.3	603.0
	-2004013	Gainesville	FL	2.2	5.8	656.2		KFXR	Dallas	TX	4.0	8.3	3835.1
157	WAFS	Atlanta	GA	6.1	11.4	9910.9	217	KFAQ-136	Tulsa	OK	6.9	12.6	533.8
158	BL-	Marathon	FL	.0	2.0	1098.4		KFAQ-170	Tulsa	OK	5.5	10.6	649.7
159	-2004012	Curlew	FL	1.3	4.6	727.3							



**Dataworld**  
**Bethesda, MD**

Permissible Radiation Limit Summary

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Longitude: W 88° 40' 40.0"

Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)	Azimuth	Call	City	St	T-Min (deg)	T-Max (deg)	Rad. (mV/m)
218	KFAQ-132	Tulsa	OK	7.0	12.8	524.2	233	KFAQ-003	Tulsa	OK	8.8	15.4	420.9
	KFAQ-178	Tulsa	OK	5.3	10.2	676.7		KFAQ-260	Tulsa	OK	5.1	9.9	714.4
	XE	Rio Grande	Mx	.0	.0	1993.0	234	KFAQ-000	Tulsa	OK	8.8	15.5	419.5
	KFXR	Dallas	TX	3.7	7.9	4198.2		KFAQ-265	Tulsa	OK	5.2	10.1	707.5
219	KFAQ-123	Tulsa	OK	7.2	13.1	509.3	235	KFAQ-359	Tulsa	OK	8.8	15.5	419.4
	KFAQ-185	Tulsa	OK	5.1	9.9	698.1		KFAQ-270	Tulsa	OK	5.3	10.2	697.7
220	KFAQ-117	Tulsa	OK	7.3	13.2	502.6	236	KFAQ-356	Tulsa	OK	8.8	15.5	420.4
	KFAQ-191	Tulsa	OK	5.0	9.7	714.2		KFAQ-276	Tulsa	OK	5.4	10.4	682.8
221	KFAQ-112	Tulsa	OK	7.4	13.3	500.4	237	KFAQ-354	Tulsa	OK	8.8	15.4	422.0
	KFAQ-197	Tulsa	OK	4.8	9.6	728.1		KFAQ-282	Tulsa	OK	5.6	10.7	665.2
222	KFAQ-105	Tulsa	OK	7.4	13.3	498.5	238	KFAQ-351	Tulsa	OK	8.7	15.3	425.7
	KFAQ-202	Tulsa	OK	4.8	9.5	737.9		KFAQ-290	Tulsa	OK	5.9	11.1	638.1
223	KFAQ-083	Tulsa	OK	7.6	13.6	487.4		KPHN	Kansas City	MO	12.3	20.7	806.1
	KFAQ-207	Tulsa	OK	4.6	9.3	754.7		KPHN	Kansas City	MO	12.3	20.7	806.1
224	KFAQ-062	Tulsa	OK	7.7	13.8	479.9		KPHN	Kansas City	MO	12.3	20.7	806.1
	KFAQ-215	Tulsa	OK	4.7	9.4	750.9		KPHN	Kansas City	MO	12.3	20.7	806.1
225	KFAQ-044	Tulsa	OK	7.8	13.9	475.9	239	KFAQ-348	Tulsa	OK	8.7	15.2	431.0
	KFAQ-220	Tulsa	OK	4.7	9.4	746.6		KFAQ-296	Tulsa	OK	6.1	11.4	619.7
226	KFAQ-029	Tulsa	OK	7.8	14.0	473.2	240	KFAQ-345	Tulsa	OK	8.5	15.0	437.8
	KFAQ-225	Tulsa	OK	4.8	9.5	742.6		KFAQ-299	Tulsa	OK	6.1	11.5	614.5
227	KFAQ-021	Tulsa	OK	8.0	14.2	463.7		-2004012	Amarillo	TX	2.8	6.7	5173.9
	KFAQ-230	Tulsa	OK	4.8	9.6	736.5	241	KFAQ-342	Tulsa	OK	8.4	14.8	446.0
228	KFAQ-017	Tulsa	OK	8.2	14.5	451.8		KFAQ-303	Tulsa	OK	6.3	11.7	604.6
	KFAQ-235	Tulsa	OK	4.9	9.7	729.5		870107AM	Roswell	NM	1.1	4.3	644.3
229	-2004012	Blandinsville	IL	29.9	43.7	305.0	242	KFAQ-339	Tulsa	OK	8.3	14.6	455.5
	KFAQ-013	Tulsa	OK	8.4	14.9	438.8		KFAQ-307	Tulsa	OK	6.4	11.9	592.4
	KFAQ-239	Tulsa	OK	5.0	9.8	717.0		-2004012	Las Cruces	NM	.0	2.7	766.3
230	KFAQ-010	Tulsa	OK	8.6	15.1	431.3	243	KFAQ-334	Tulsa	OK	8.0	14.2	473.9
	-2004013	Cache	OK	4.2	8.6	616.7		KFAQ-312	Tulsa	OK	6.6	12.2	573.1
	KFAQ-246	Tulsa	OK	5.0	9.9	716.2	244	KFAQ-329	Tulsa	OK	7.7	13.7	495.1
231	KFAQ-008	Tulsa	OK	8.6	15.2	427.4	246	KJOC	Davenport	IA	40.3	54.6	110.6
	KFAQ-251	Tulsa	OK	5.1	10.0	711.1	253	KMYL	Tolleson	AZ	.0	.9	7923.2
	-2004012	Odessa	TX	1.3	4.6	763.6		KMYL	Tolleson	AZ	.0	.9	7923.2
232	KFAQ-005	Tulsa	OK	8.7	15.3	423.0		KMYL	Tolleson	AZ	.0	.9	7923.2
	KFAQ-252	Tulsa	OK	5.1	9.9	712.0	256	-2004012	Walsenburg	CO	2.4	6.1	601.1

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257	KYET	Williams	AZ	.0	1.4	1048.5	318	-2000012	Baxter	MN	11.0	18.6	157.3
	KYET	Williams	AZ	.0	1.4	1048.5		-2002050	Baxter	MN	11.0	18.6	157.3
258	KYET	Williams	AZ	.0	1.4	1060.4							
	KYET	Williams	AZ	.0	1.4	1060.4							
	KYET	Williams	AZ	.0	1.4	1060.4							
261	LINCOLN	Lincoln	NE	10.7	18.2	257.4							
264	KYDZ	Bellevue	NE	12.2	20.5	123.0							
	KYDZ	Bellevue	NE	12.2	20.5	123.0							
265	KERI	Wasco-greenacres	CA	.0	.0	1614.6							
273	KJPN	Honolulu	HI	.0	.0	1952.5							
	KJPN	Honolulu	HI	.0	.0	1952.5							
	KJPN	Honolulu	HI	.0	.0	1952.5							
274	-2004012	Reno	NV	.0	.0	2616.1							
	-2000020	Truckee	CA	.0	.0	2631.0							
280	-2004012	Casper	WY	2.4	6.1	523.7							
282	-2000013	Jacksonville	OR	.0	.0	3995.1							
	-2001072	Jacksonville	OR	.0	.0	3995.1							
	MEDFORD	Medford	OR	.0	.0	4003.2							
287	KEX-176	Portland	OR	.0	.0	6097.8							
	KEX-176	Portland	OR	.0	.0	6097.8							
288	STURGIS	Sturgis	SD	4.0	8.3	294.9							
	KEX-160	Portland	OR	.0	.0	6072.2							
	KEX-160	Portland	OR	.0	.0	6072.2							
289	KEX-121	Portland	OR	.0	.0	6027.3							
	KEX-121	Portland	OR	.0	.0	6027.3							
290	KEX-073	Portland	OR	.0	.0	6039.3							
	KEX-073	Portland	OR	.0	.0	6039.3							
291	KEX-046	Portland	OR	.0	.0	6228.1							
	KEX-046	Portland	OR	.0	.0	6228.1							
292	KEX-009	Portland	OR	.0	.0	6545.7							
	KEX-009	Portland	OR	.0	.0	6545.7							
294	KLAY	Lakewood	WA	.0	.0	4668.3							
	KLAY	Lakewood	WA	.0	.0	4668.3							
298	KOFI	Kalispell	MT	.0	1.7	385.3							
317	831219	Virden	Cn	5.7	5.7	398.4							

>> End of Permissible Radiation Limit Summary <<

**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

DEKALB COUNTY BROADCASTERS, INC.  
1 BROADCAST CENTER  
PLANO IL 60545

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Grant Date: November 02, 2005

Facility Id: 16409

Call Sign: WSQR

Permit File Number: BMJP-20050114AEE

This permit expires 3:00 a.m.  
local time, 36 months after the  
grant date specified above.

Permit to change frequency from 1560 to 1180 kHz.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Hours of Operation: Daytime

Average hours of sunrise and sunset:  
Local Standard Time (Non-Advanced)

Jan.	7:15 AM	4:45 PM	Jul.	4:30 AM	7:30 PM
Feb.	6:45 AM	5:30 PM	Aug.	5:00 AM	7:00 PM
Mar.	6:15 AM	6:00 PM	Sep.	5:30 AM	6:00 PM
Apr.	5:15 AM	6:30 PM	Oct.	6:00 AM	5:15 PM
May	4:30 AM	7:15 PM	Nov.	6:45 AM	4:30 PM
Jun.	4:15 AM	7:30 PM	Dec.	7:15 AM	4:30 PM

Callsign: WSQR

Permit No.: BMJP-20050114AEE

Name of Permittee: DEKALB COUNTY BROADCASTERS, INC.

Station Location: SYCAMORE, IL

Frequency (kHz): 1180

Station Class: D

Antenna Coordinates:

Day

Latitude: N 42 Deg 00 Min 24 Sec

Longitude: W 88 Deg 40 Min 04 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 0.90

Antenna Mode: Day: ND

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Antenna Registration Number(s):

Day:

Tower No. ASRN

1 None 58.91

Non-Directional Antenna: Day

Radiator Height: 57 meters; 80.78 deg

Theoretical Efficiency: 299.6 mV/m/kw at 1km

Special operating conditions or restrictions:

- 1 Permittee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data prescribed in Section 73.1660(b) should non-type accepted transmitter be proposed.

Special operating conditions or restrictions:

- 2 After a license has been granted to cover this construction permit, licensee may submit the information required pursuant to 47 CFR Section 73.99(e) if a Presunrise (PSRA) and/or Postsunset Authorization (PSSA) is desired.
- 3 A license application (FCC Form 302) to cover this construction permit must be filed with the Commission pursuant to Section 73.3536 of the Rules before the permit expires.
- 4 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.
- 5 Permittee will abandon the 1560 kHz frequency which WSQR, Sycamore, Illinois, currently operates, prior to or simultaneously with the filing of FCC Form 302 application for license.

\*\*\* END OF AUTHORIZATION \*\*\*