

Station Separation Engineering Statement

WARH-FM

The purpose of this 301 application is to modify station license coordinates due to an ASR coordinate update on the host tower. There will be no change in the physical location of the currently licensed station. The existing facilities are as follows:

Antenna Registration #1020785 (NAD 27)

North Latitude: 38 deg 34 min 27.7 sec

West Longitude: 90 deg 19 min 31.4 sec

WARH-FM Licensed Coordinates (NAD 27)

North Latitude: 38 deg 34min 24 sec

West Longitude: 90 deg 19 min 30sec

By means of this application, we would like to modify the existing station license coordinates to match the ASR coordinates. The new station coordinates would be:

North Latitude: 38 deg 34 min 27.7 sec

West Longitude: 90 deg 19 min 31.4 sec

A check of station spacing using the V-Soft program shows that there will be no new overlap of existing co and adjacent channel stations, per FCC Section 73.207. (In fact, the "new" coordinates provide a slight improvement in the spacing to first adjacent channel 294-C2 KDKN Ellington MO.)

Please refer to the following included documents:

1. Current WARH-FM License
2. Antenna Structure Registration
3. V-Soft Channel Spacing Study

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St. Paul, MN 55114

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United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

ST. LOUIS FCC LICENSE SUB, LLC
3415 UNIVERSITY AVENUE, WEST
ST. PAUL MN 55114

Mary Houser
Supr Applications Examiner
Audio Division
Media Bureau

Grant Date: February 19, 1992

Facility Id: 74577

Call Sign: WARH

This license expires 3:00 a.m.
local time, December 01, 1996.

License File Number: BLH-19890509KC

This license covers Permit No.: BPH-19840821AS

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Callsign: WARH

License No.: BLH-19890509KC

Name of Licensee: ST. LOUIS FCC LICENSE SUB, LLC

Station Location: IL-GRANITE CITY

Frequency (MHz): 106.5

Channel: 293

Class: C1

Hours of Operation: Unlimited

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

Transmitter output power:

Antenna type: Non-Directional

Description:

Antenna Coordinates: North Latitude: 38 deg 34 min 24 sec

West Longitude: 90 deg 19 min 30 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	90	90
Height of radiation center above ground (Meters):	325	325
Height of radiation center above mean sea level (Meters):	466	466
Height of radiation center above average terrain (Meters):	313	313

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 338 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

*** END OF AUTHORIZATION ***

ASR Registration Search

Registration 1020785 [Map Registration](#)**Registration Detail**

Reg Number	1020785	Status	Constructed
File Number	A0716972	Constructed	05/01/1986
FAA Study	2011-ACE-465-OE	EMI	No
FAA Issue Date	03/02/2011	NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long	38-34-27.9 N 090-19-31.9 W	7555 Mackenzie Road (ST. Louis MO 4 #305889)
City, State	SAINT LOUIS , MO	
Center of AM Array		

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
137.2	339.9
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
477.1	339.9

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1K

Owner & Contact Information

FRN	0014344485	Licensee ID	L00132178
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Owner

Spectrasite Communications, Inc. through
American Towers, Inc.
Attention To: FAA/FCC Compliance Dept.
1101 Perimeter Drive
Schaumburg , IL 60173

P: (847)240-1508
E: ATCfaa-fccmidwest@americantower.com

Contact

Compliance Dept. , FAA/FCC
1101 Perimeter Drive
Schaumburg , IL 60173

P: (847)240-1508
E: ATCfaa-fccmidwest@americantower.com

Last Action Status

Status	Constructed	Received	03/04/2011
Purpose	Notification	Entered	03/04/2011
Mode	Interactive		

Related Applications

03/04/2011 A0716971 - Modification (MD)

03/04/2011 A0716972 - Notification (NT)
01/14/2011 A0711170 - Modification (MD)
Related applications (22)

Comments**Comments**

None

Automated Letters

03/05/2011	Authorization, Reference
01/19/2011	Authorization, Reference
09/14/2010	Authorization, Reference
All letters (15)	

CLOSE WINDOW

WARH-FM Licensed Coordinates
St. Louis Fcc License Sub, Llc

REFERENCE
38 34 24.0 N.
90 19 30.0 W.

CLASS = C1
Current Spacings to 3rd Adj.
----- Channel 293 - 106.5 MHz -----

DISPLAY DATES
DATA 06-21-11
SEARCH 07-06-11

Call	Channel	Location		Azi	Dist	FCC	Margin
WARH	LIC 293C1	Granite City	IL	0.0	0.0	244.5	-244.5
KDKN	CP -Z 294C2	Ellington	MO	191.1	156.1	157.5	-1.4
WQRL	LIC 292B1	Benton	IL	115.9	160.6	160.5	0.10
WPWQ	LIC 294B1	Mount Sterling	IL	340.4	161.6	160.5	1.2
WWBL	APP 293B	Petersburg	IN	87.2	275.3	269.5	5.9
WWBL	RSV-A 293B	Petersburg	IN	87.2	275.3	269.5	5.9
WWBL	LIC 293B	Washington	IN	87.2	275.3	269.5	5.9
KLMZ	LIC-N 296A	Leadwood	MO	193.6	88.2	74.5	13.7
KLMZ	CP -N 296A	Leadwood	MO	193.6	88.2	74.5	13.7
WSMI-FM	LIC 291B	Litchfield	IL	38.8	97.7	78.5	19.2
KTMO	LIC 293C2	New Madrid	MO	166.6	244.9	223.5	21.4
WZNX	LIC-N 294B1	Sullivan	IL	50.2	182.3	160.5	21.8
KDKN	LIC 294A	Ellington	MO	197.4	155.8	132.5	23.4
WDML	LIC 295A	Woodlawn	IL	102.3	109.6	74.5	35.2
WDML	CP 295A	Woodlawn	IL	102.3	109.7	74.5	35.2
WEAI	LIC 296A	Lynnville	IL	2.8	116.5	74.5	42.0

RSV-R = reserved and needs protection, RSV-A = allocation

WARH-FM New Licensed Coordinates
St. Louis Fcc License Sub, Llc

REFERENCE		DISPLAY DATES
38 34 27.7 N.	CLASS = C1	DATA 06-21-11
90 19 31.9 W.	Current Spacings to 3rd Adj.	SEARCH 07-06-11
----- Channel 293 - 106.5 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WARH	LIC 293C1	Granite City	IL	157.9	0.1	244.5	-244.4
KDKN	CP -Z 294C2	Ellington	MO	191.0	156.2	157.5	-1.3
WQRL	LIC 292B1	Benton	IL	116.0	160.7	160.5	0.19
WPWQ	LIC 294B1	Mount Sterling	IL	340.4	161.5	160.5	1.0
WWBL	APP 293B	Petersburg	IN	87.2	275.4	269.5	5.9
WWBL	RSV-A 293B	Petersburg	IN	87.2	275.4	269.5	5.9
WWBL	LIC 293B	Washington	IN	87.2	275.4	269.5	5.9
KLMZ	LIC-N 296A	Leadwood	MO	193.6	88.3	74.5	13.8
KLMZ	CP -N 296A	Leadwood	MO	193.6	88.3	74.5	13.8
WSMI-FM	LIC 291B	Litchfield	IL	38.9	97.7	78.5	19.2
KTMO	LIC 293C2	New Madrid	MO	166.6	245.0	223.5	21.5
WZNX	LIC-N 294B1	Sullivan	IL	50.2	182.2	160.5	21.7
KDKN	LIC 294A	Ellington	MO	197.4	155.9	132.5	23.4
WDML	LIC 295A	Woodlawn	IL	102.3	109.7	74.5	35.2
WDML	CP 295A	Woodlawn	IL	102.3	109.7	74.5	35.3
WEAI	LIC 296A	Lynnville	IL	2.9	116.4	74.5	41.9

RSV-R = reserved and needs protection, RSV-A = allocation