NOT PERFE

western union

leegram

DMA 008 (0833) (1-002510C318006) PD 11/14/73 0812 TLX WURB BCH WSH (ZCZCTO 13 NL (COLLECT) RBWASHINGTON DC 1 PT 15 459P EST

ATTEMPTS . PMS ALLIED BROADCASTING CO

RADIOSTATION KCBC (PHONE AND MAIL) BOX 1404

DESMOLNES IA REFERENCE 8840-H. AUTHORITY GRANTED OMIT LIGHTING MARKING REQUIREMENTS TOWERS 2-AND 3. NEXT INSTRUMENT OF AUTHORIZATION ISSUED WILL REQUIRE NE(#2) AND SE(#3) TOWERS TO BE MARKED IN ACCORDANCE WITH PARAGRAPHET OF FCC FORM 715. NW(#1) AND SW(#4) TOWERS IN ACCORDANCES WITH PARAGRAPHS 1, 3, 12 AND 21. POST THIS AS AUTHORITY TO SO OPERATE

WAT LACE E JOHNSON CHIEF BROADCAST BUREAU FCC

840-H 2.3 NE(#2) SE(#3) 1 715 NW(#1) SW(#4) 1 3 12 2

> STEPS TO JUSTIFY THE NO LIGHTS/PAINT ON KKSO DWER.

- DTELEGRAM 11/73 etc. To be reflected Next Live
- NEXT LICENSE NOT REFLECTED
- REQUIT ALL LIGHT/PAINT OFF (10-78)
- FELEGRAM OK etc tube reflected Next Elemie

 (S) NEXT LICENSE NOT REFLECTED.
- 6 CURRENT LICENSE- NOT REFLECTED BUT WE HAVE NO RECERO THAT THE TELEGRAM IS NOT IN FULL EFFET. THERE FOR TOWER ARE NEITHER PAINTED ON LIGHTED

Eld Selle 9/23

FCC Form 352 December 1973

UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

RENEWAL AND MODIFICATION STANDARD BROADCAST STATION LICENSE

MAIN AND AUXILIARY TRANSMITTERS Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission made thereunder, and further subject to conditions set forth in this license, the LICENSEE

ALLIED BROADCASTING COMPANY

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broad for the term ending 3 a.m. Local Time FEBRUARY 1, 1977

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of 1390

2. With nominal power of 1 kilo watts nighttime and 1 kilo watts daytime, with antenna input power of 1.08 kilo watts --- directional antenna nighttime and antenna input power of 1.08 kilo watts --- directional antenna daytime

4.0 Common Point current resistance 67.5 Common Point 4.0 current Common Point resistance 67.5 Common Point

3. Hours of operation:

Transmitters may be operated control from 6967 University Des Moines, Iowa.

Unlimited Time.

- 4. With the station located at: Des Moines, Iowa
- 5. With the main studio located at:

6967 University

6. The apparatus herein authorized to be used and operated is located at: North Latitude: City Limits and Dean Avenue Des Moines, Iowa

41 ° 35' 93 ° 31'

BR-18

File No.: BRC-3

Call Sign: K C B

RCA, BTA-1R2 (Main) RAYTHEON, RA-1000 (Auxiliary) 7. Transmitter(s):

(or other transmitter currently listed in the Commission's "Radio Equipment List, Part B, Aural Broadcast Equipment 8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 1

9. Conditions: --

The Commission reserves the right during said license period of terminating this license or making effective any change tion of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hear

been designated but not held, prior to the commencement of this license period. This license is issued on the licensee's representation that the statements contained in licensee's application are true undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, du this license, render such broadcasting service as will serve public interest, convenience, or necessity to the full extent of the

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

 \mathcal{L} This license consists of this page and pages 2 & 3.

Dated: MAY 8, 1975

FEDERAL COMMUNICATIONS COMMISSION

West Longitude:



DEPARTMENT OF TRANSPORTATION , FEDERAL AVIATION ADMINISTRATION

CENTRAL REGION 601 EAST 12TH STREET KANSAS CITY, MISSOURI .. 64196

October 27, 1978

Mr. Edward M. Tink Executive Vice President Engineering Black Hawk Broadcasting Company E. 4th & Franklin Waterloo, Iowa 50703

Dear Mr. Tink:

This is in response to your three letters dated October 19, 1978, requesting a determination on continued requirements to mark and light your antenna towers. We have conducted an aeronautical study on your request and the antenna towers with our determinations are listed below.

KWWL, Waterloo, Iowa Latitude 42°28'1"N; Longitude 92°15'59"W Site elevation 840' MSL; tower height 193' AGL; 1033' AMSL

Marking and lighting are no longer necessary since this tower does not exceed an FAA obstruction standard and does not exceed 200 feet above ground.

2. KLWW, Cedar Rapids, Iowa Latitude 42°00'25"N; Longitude 91°42'29WN Site elevation 720' MSL; 183' AGL; 903' AMSL

Marking and lighting are no longer necessary because this tower does not exceed an FAA obstruction standard and does not exceed 200 feet above the ground.

KCBC, Des Moines, Iowa Latitude 41°35'18"N; Longitude 93°31'38"W Site elevation 800' MSL; 209' AGL; 1009 AMSL

This tower exceeds the basic criteria for marking and lighting, i.e., any structure which exceeds 200 feet above the ground; however, an aeronautical study was conducted under Case No. 78-ACE-796-OE and the tower was found not to exceed FAA obstruction standards and to be shielded by taller structures nearby that are marked and lighted. Therefore, it is determined that marking and lighting are no longer necessary.

The FCC will be notified by a copy of this letter.

Sincerely,

Airspace Specialist

cc: FCC

Telegr

03 100 NL COLLECT REWASHINGTON DC 02-22 0429P ES

PMS MINNESOTA TIOWA TELEVISION CO

RADIO STATION, KCBC-AM, FONE AND MAIL

DES MOINES IA 50311

REF 8910-GT RELET SCHEENKER 1-28-80 PURSUANT TO YOUR REQUEST

IN WHICH FAA CONCURS OBSTRUCTION MARKING AND LIGHTING

REQUIREMENTS FOR THE ANTENNA STRUCTURE OF KCBC-AM ARE HEREBY

DELETED THIS CORRECTION WILL APPEAR ON YOUR NEXT AUTHORIZATIO

LARRY OLSON BRANCH CHIEF GARY THAYER ENGR BROADCAST BUR FCC



UNITED'STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

File No.: BR-790925UN

Call Sign: K C B C

STANDARD BROADCAST STATION LICENSE MODIFIED

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, $\frac{1}{2}$ the LICENSEE

MINNESOTA-IOWA TELEVISION CO.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time February 1, 1983 The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of 1390

2. With nominal power of 1 kilo watts nighttime and 1 kilo watts daytime, with antenna input power of 1.08 kilowatts - directional 4.0 amperes Common Point current ohms, directional Common Point amperes current 4.0 and antenna input power of 1.08 kilo watts ohms antenna daytime _Common Point resistance 67.5

3. Hours of operation:

Unlimited Time.

4. With the station located at:

Des Moines, Iowa

5. With the main studio located at: 6967 University

Des Moines, Iowa

6. Remote control point:

6967 University

Des Moines, Iowa

93

7. Transmitter location:

North Latitude: West Longitude:

18 ... 41 35, 31

38

City limits and Dean Avenue

Des Moines, Iowa

8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 12 & 21

9. Transmitter(s): TYPE ACCEPTED

10. Conditions: -

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this livense period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

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 shail, during the term of this license, render such broadcasting service as will serve public interest, convenience, or necessity to the full extent of the privileges

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 herein conferred. 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 506 of the Communications Act of 1934.

1/This license consists of this page and pages 2 & 3

FEDERAL COMMUNICATIONS COMMISSION



Dated: January 31, 1980 tme

FCC Form 352 May 1988

UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

AM BROADCAST STATION LICENSE

File No. : BS-93

Call Sign : KKSO

LICENSEE:	
FULLER-JEFFREY BROADCA	
	3. Transmitter(s): Type Accepted. (See Section: 73,1665 and 73,1670 of the Commission's rules)
1. Community of License: Des Moines, IA	4. Main Studio location: (See Section 73.1125)
give limits and Dean Ave	inue 5161 Maple Drive
2. Transmitter location: City limits and bear five Des Moines, IA	Des Moines, IA
	5. Remote control location:
North latitude : 41° 35 18″ West longitude : 93° 31 38	5161 Maple Drive Des Moines, IA
West longitude: 93 31 38	bes romes, m
6. Antenna and ground system: Attached.	
Attached.	
	$\widehat{\hspace{1cm}}$
	(6)
7. Obstruction marking and lighting specifications - FCC Form 715	, paragraphs: 1, 3, 12 & 21.
8. Frequency: <u>1390</u> kHz	
	1.0 Night
9. Nominal power (kW):: Day	
Antenna input power (kW):	(7.5
1.08 Day Non-directional antenna:	current 4.0 amperes; resistance 67.5
1.08 Night . Non-directional antenna:	current4.0amperes; resistance 67.5
Directional antenna :	current
O. Hours of operation: Specified in $B\!R\!-\!1812$	
1. Conditions:	
BS-930927: This is to reflect a change in bo	oth the Main Studio and Remote Control
BS-930927: This is to reflect a change in a	
Subject to the provisions of the Communications Act of 1934	, as amended, subsequent Acts, Treaties, and Commis-
Subject to the provisions of the Communications Act of 1934 made thereunder, and further subject to conditions set forth in	this license, 1 the LICENSEE is hereby authorized to
made thereunder, and further subject to conditions set for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitting apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio transmitted apparatus herein described for the properate the radio tran	nchose of progressing for the fatti and 2 2244 57
February 1, 1993	

The Commission reserves the right during said license period of terminating this license or making effective any change, or modification license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rule: Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been de but not held, prior to the commencement of this license period.

The license is issued on the licensee's representation that the statements contained in the licensee's application are true and undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee's application are true and undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term undertakings therein contained so far as they are consistent herewith, will be carried out in good faith.

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 beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereinder shall be associated as transferred in violation of the Communications act of 1934, as amended. This license is subject to the right of use or control covernment of the United States conferred by Section 808 of the Communications act of 1934, as amended.

FEDERAL COMMUNICATIONS COMMISSION



 $^{^1}$ This license consists of this page and pages $-2/8/3_{\circ}$

FCC Form 353-A

File NO. BS-930927

Call Sign: K K S O

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM 1.

No. and Type of Elements: Four (4), uniform cross section, guyed, series-excited, vertical, steel radiators. Theo RMS: 289.68 mV/m, Day & Night. Q = 10.0 Day & Night. Aug RMS: 305.70 mV/m, Day & Night. (ALL VALUES @ 1 km).

Height above Insulators: 60.96 m (101.7°)

Overall Height:

63.70 m

Spacing and Orientation: Towers arranged as a parallelogram with the short sides spaced 53.95 m (90°) on a line bearing 112° True and the long sides spaced 151.64 m (253°) on a line bearing 152° True.

Non-Directional Antenna: None used.

Ground System consists of 120 - 91.44m equally spaced, buried, copper radials about each tower, plus interspaced radials 15.24m about each tower.

	Laurur -			
2.	THEORETICAL SPECIF	ICATIONS NE(#2)	SE(#3)	SW(#4)
	Phasing 0°	109°	182°	73°
	Field Ratio: 1.0	1.0	1.0	1.0
	OPERATING SPECIFIC	CATIONS		
3.	Phase Indication*	: 99°	172°	71.5°
	Antenna Base Curr	ent Ratio: 1.142	1.086	1.015
	Antenna Monitor S	ample Curre	ent Ratio: 1.085	1.00

^{*} As indicated by Potomac Instruments AM-19D (210) Antenna Monitor.

Antenna sampling system approved under Section 73.68(b) rules

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 88° True North. From transmitter proceed east on Dean Avenue 0.64 mile to Oakwood Drive. Proceed northeast then east on Rising Sun Drive 3.0 miles to 72nd Street. Turn south or 72nd Street a distance of 0.1 mile to the second knoll. The measuring location is in the center of the road on the approach to the second knoll. Distance from antenna is 3.45 miles. The to the second knoll. Distance from antenna is 3.45 miles. The field intensity measured at this point should not exceed 6.0 mV/m.

Direction of 147° True North. From the transmitter proceed east on Dean Avenue 0.4 mile to Pleasant Hill Blvd. Turn south and proceed south 0.6 mile to a drive to the east on the southeast corner of the intersection of Pleasant Hill Blvd and Parkridge Avenue. The measuring location is 75 feet east of the end of the drive, east of the fence along the south side of the dwelling. Distance from antenna is 0.9 mile. The field intensity measured at this point should not exceed 30 mV/m.

Direction of 212.5° True North. From the transmitter proceed east on Dean Avenue 0.4 mile to Pleasant Hill Blvd. Turn south and proceed south 1.5 miles to Vandalia Road. Proceed 1.72 miles west to a rural road to the south which crosses the railroad tracks and immediately turns southeast. Proceed southeast along tracks road 0.25 mile to an abandoned railroad bed to the east this road 0.25 mile to an abandoned railroad bed to the measuring which points to a factory spur track farther east. The measuring which points to a factory spur track farther east. The field location is opposite this railroad bed, 100 feet into the field on the west. Distance from antenna is 2.0 miles. The field intensity measured at this point should not exceed 19.5 mV/m.

Direction of 323.5° True North. From the transmitter proceed west on Dean Avenue to 30th Street. Turn north and proceed for 1.13 miles to University Avenue. Proceed east 0.36 mile to 33rd 1.13 miles to Grandview Park Drive to the Street. Proceed north 1.13 miles to Grandview Park Drive. The west. Proceed 0.08 mile to west on Grandview Park Drive. The measuring location is at a tree stump along the south curb of the drive. Distance from antenna is 2.07 miles. The field intensity measured at this point should not exceed 5.4 mV/m.