

KWTN (FM)  
Modification of Application  
CHANNEL 265A ALLEN, NE

April 2021

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibits were prepared on behalf of The Winnebago Tribe of Nebraska (“Winnebago”), Licensee of FM radio Station KWTN, Channel 265A in support of a construction permit to amend the current application. The station will remain on channel 265A and will improve the facility, increasing HAAT and power at the existing licensed site. The community of license will remain Allen, NE.

The proposed KWTN 265A facility will operate at 6kW ERP and 65m HAAT (COR) and will operate under 73.215 of the Commission’s rules with respect to KGBI-FM, 264C0. It will be compliant under 73.207 to all other pertinent facilities.

**Proposed Facility Specifications**

Coordinates (NAD83)	42°-24’-46.9” N Latitude, 96°-50’-24.1” W Longitude
ASR	N/A, existing tower per current license
Tower Overall AGL	36m
Site AMSL	475m
Antenna COR AGL	30m
Antenna COR AMSL	505m
Antenna HAAT	66m
Antenna Pattern	NON-Directional
Proposed Antenna	Bext TCF-2K-3
ERP	6kW

## 73.207 Allocation

### OPERATING COORDINATES

ComStudy 2.2 search of channel 265 (100.9 MHz Class A) at 42-24-46.9 N, 96-50-24.1 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
KGBI-FM	OMAHA	NE 264 C0	139.76	152.00	150.9	-12.2 73.215
KLIR	COLUMBUS	NE 266 C1	134.24	133.00	200.7	1.2
KKYY	WHITING	IA 267 C2	58.46	55.00	95.9	3.5
KGBI-FM	OMAHA	NE 264 C0	160.65	152.00	160.3	8.6
KZEN	CENTRAL CITY	NE 262 C	119.25	95.00	215.9	24.2
KXIN	WAGNER	SD 265 A	140.44	115.00	302.5	25.4
KWIT	SIOUX CITY	IA 212 C1	48.45	22.00	80.6	26.4
KWIA	NEWELL	IA 265 A	142.13	115.00	80.2	27.1
KLQL	LUVERNE	MN 266 C1	163.18	133.00	18.1	30.2

Exhibit A demonstrates 73.215 compliance to KGBI, 264C0

## COMMUNITY OF LICENSE COVERAGE

KWTN will place a 70dBu contour over 100% of the community of Allen, NE Exhibit B demonstrates the city grade coverage over Allen, NE.

## ENVIRONMENTAL CONSIDERATIONS

KWTN proposes to utilize a 3-bay, full wave spaced antenna located on the currently licensed non-registered tower. There will be no changes made to the tower. KWTN will have a center of radiation at 30m AGL. Based upon those specifications, and analyzed with the FCC's FM Model, Internet application for the proposed antenna operating at 6kW H+V, the maximum power density at 2m AGL will be 79.7  $\mu\text{W}/\text{cm}^2$  at 13m from the tower base which is 39.9% of the maximum allowable 200  $\mu\text{W}/\text{cm}^2$  RF level for public exposure. There are no other RF sources on the tower. There are no multistory structures near the tower.

Based upon the preceding data It is believed the impact of the proposed operation should not be considered to be a factor at ground level as defined under §1.1307(b)(3).

## CERTIFICATION

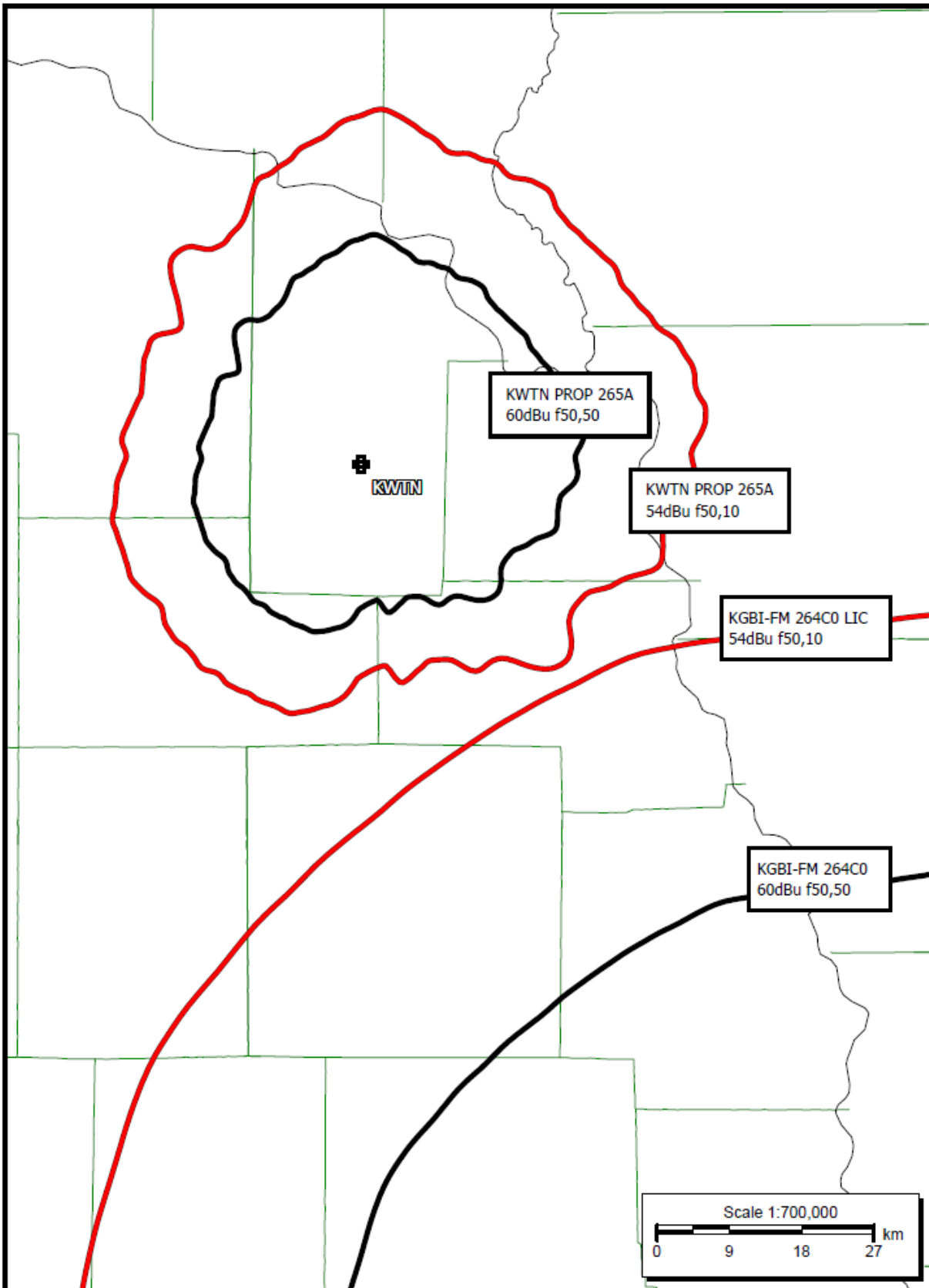
The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direct supervision, and that they are true and correct to the best of his knowledge and belief.

A handwritten signature in black ink, appearing to read "Bertram S. Goldman", with a long horizontal flourish extending to the right.

Bertram S. Goldman  
Goldman Engineering Management, LLC  
560 Perkins Way, Auburn, CA. 95603  
214-395-5067

## EXHIBIT A 73.215 Contours to KGBI-FM

KWTN Proposed 265A, Allen, NE 73.215 Allocation to KGBI-FM 264C0



## EXHIBIT B Community Coverage, Allen, NE

### KWTN Proposed 265A, Allen, NE Community Coverage

