

TECHNICAL EXHIBIT
IN SUPPORT OF MODIFICATION TO THE
LICENSE APPLICATION FOR STATION KNDE(FM) (FACILITY ID 7631)
COLLEGE STATION, TEXAS
CH 236C2 38 KW 171 M

Technical Narrative

This technical statement was prepared in support of a modification to the license application for radio station KNDE at College Station, Texas. Station KNDE is licensed for a Class C2 operation on channel 236, with a non-directional effective radiated power (ERP) of 36 kilowatts (kW) and an antenna radiation center height above average terrain (HAAT) of 174 meters (BMLH-20050324AEK). Since the last license application was filed in 2005, the tower registration has changed ownership and been modified multiple times, the results of which have changed the data so that the CDBS licensed information for KNDE no longer matches.

This application is intended to correct the KNDE CDBS information to conform to the tower registration. The proposed changes to the CDBS record include transmitter site coordinates, RCAMSL (both vertical and horizontal), HAAT (both vertical and horizontal) and ERP (both vertical and horizontal). Specifically, the changes include a 3 second change in latitude, 3 second change in longitude, 2 meter reduction in antenna HAAT (3.9 meter reduction in RCAMSL) and an increase in ERP to account for the reduction in ERP. The new HAAT was determined using the FCC's online "Antenna Height Above Average Terrain (HAAT) Calculator" program. KNDE is not licensed under Section 73.215. The proposed (corrected) facilities (38 kW ERP/171 m HAAT) are equivalent to maximum Class C2 facilities.

All of the above changes are believed to be permitted without the need for filing an application for construction permit, pursuant to Section 73.1690. Below is the CDBS "Tech Box" data being corrected:

TECH BOX DATA			
CDBS Field		Current Licensed	Corrected
1	Channel Number	236	236
2	Class	C2	C2
3	Antenna Location Coordinates (NAD27)	Lat: 30-41-18	Lat: 30-41-15
		Long: 96-25-35	Long: 96-25-32
4	Proposed Allotment or Assignment Coordinates (NAD27)	N/A	N/A
5	Antenna Structure Registration Number	1047731	1047731
6	Overall Tower Height Above Ground Level	203.9 m	199.6 m
7	Height of Radiation Center Above Mean Sea Level	263.6 m	259.7 m
8	Height of Radiation Center Above Ground Level	147.8 m	147.8 m
9	Height of Radiation Center Above Average Terrain	174 m	171 m
10	Effective Radiated Power	36 kW	38 kW
11	Maximum Effective Radiated Power	N/A	N/A
12	Directional Antenna Relative Field Values	N/A	N/A

Radiofrequency Electromagnetic Field Exposure

The licensed FM facility was evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. Based on a downward relative field value of 0.28 for the existing Jampro JHCP 5-bay “double V” antenna (see manufacturer supplied pattern in Figure 1), the calculated power density at a point 2 meters above ground level will not exceed 0.0094 mW/cm^2 , which is 4.7% of the FCC's recommended limit of 0.2 mW/cm^2 for FM channels, applicable to general population/uncontrolled exposure areas.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down. The licensed operation appears to be otherwise categorically excluded from environmental processing.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.



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KNDE(FM) RF Transmission System Specifications

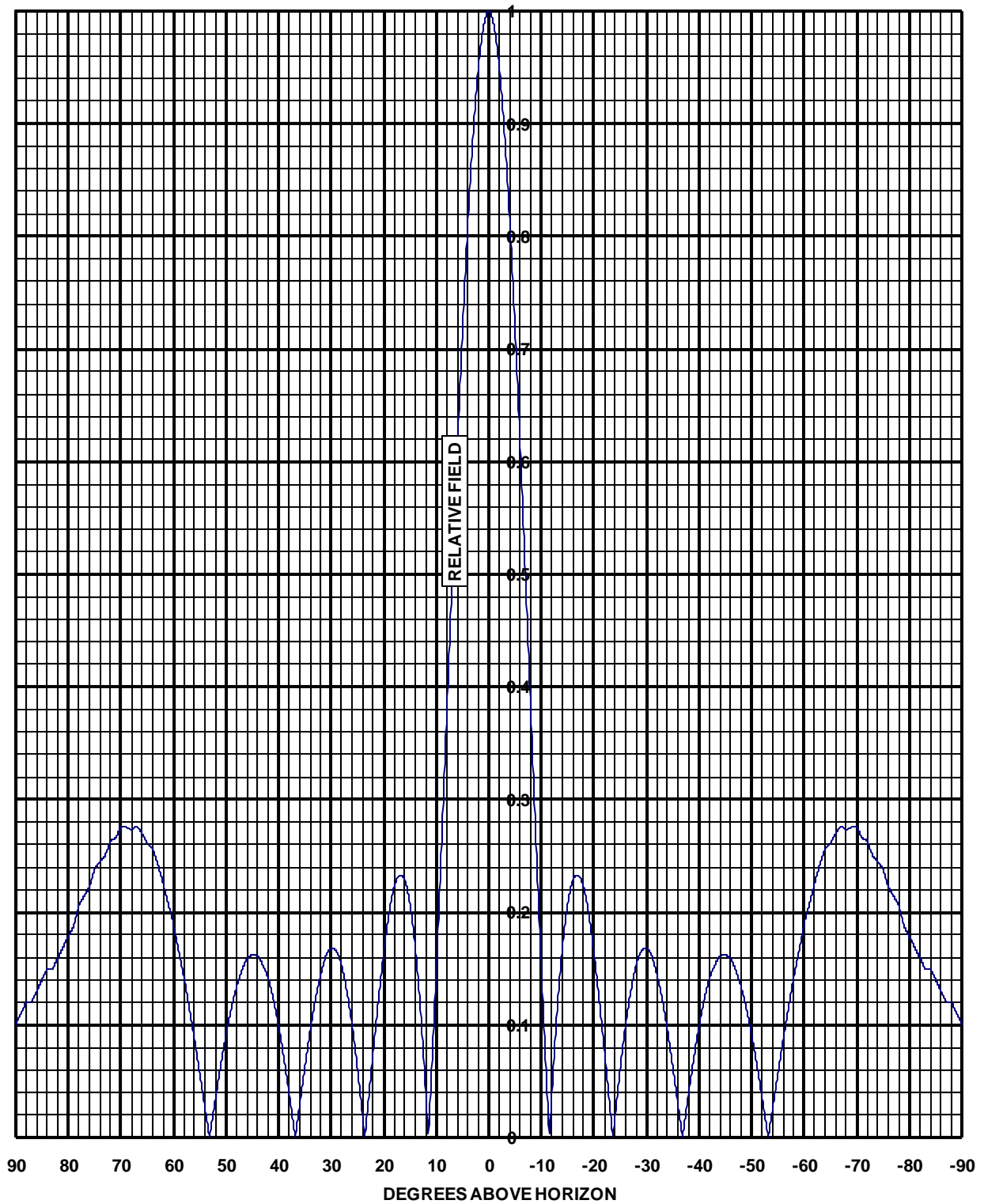
Description	System
Transmitter Power Output (16.0 kW):	12.05 dBk
Transmission Line Loss (88% efficient):	0.55 dB
Jampro (JAM) JHPC-5 (2.7 Power Gain):	4.3 dB
Effective Radiated Power (38 kW):	15.8 dBk



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COMPUTED ELEVATION PATTERN



Model: 5 Bay
Description: FM Sidemount Antenna
-0 ° Beam Tilt, 0% Null Fill



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Elevation Pattern Tabulation

<u>ELEVATION</u> <u>ANGLE</u>	<u>RELATIVE</u> <u>FIELD</u>	<u>ELEVATION</u> <u>ANGLE</u>	<u>RELATIVE</u> <u>FIELD</u>	<u>ELEVATION</u> <u>ANGLE</u>	<u>RELATIVE</u> <u>FIELD</u>
10	0.151	-26	0.101	-61	0.207
9	0.263	-27	0.130	-62	0.225
8	0.380	-28	0.153	-63	0.242
7	0.498	-29	0.165	-64	0.256
6	0.613	-30	0.168	-65	0.261
5	0.720	-31	0.162	-66	0.270
4	0.815	-32	0.145	-67	0.276
3	0.893	-33	0.123	-68	0.273
2	0.952	-34	0.096	-69	0.275
1	0.988	-35	0.064	-70	0.276
0	1.000	-36	0.030	-71	0.266
-1	0.988	-37	0.005	-72	0.263
-2	0.952	-38	0.038	-73	0.250
-3	0.893	-39	0.070	-74	0.245
-4	0.815	-40	0.098	-75	0.239
-5	0.720	-41	0.122	-76	0.222
-6	0.613	-42	0.142	-77	0.214
-7	0.498	-43	0.153	-78	0.206
-8	0.380	-44	0.161	-79	0.187
-9	0.263	-45	0.162	-80	0.178
-10	0.151	-46	0.158	-81	0.169
-11	0.049	-47	0.149	-82	0.159
-12	0.039	-48	0.134	-83	0.150
-13	0.113	-49	0.114	-84	0.150
-14	0.169	-50	0.091	-85	0.140
-15	0.207	-51	0.063	-86	0.130
-16	0.229	-52	0.035	-87	0.120
-17	0.232	-53	0.004	-88	0.120
-18	0.223	-54	0.027	-89	0.110
-19	0.198	-55	0.057	-90	0.100
-20	0.163	-56	0.088		
-21	0.121	-57	0.115		
-22	0.076	-58	0.143		
-23	0.027	-59	0.166		
-24	0.019	-60	0.190		
-25	0.063				

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