

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
AM BROADCAST STATION LICENSE

File No. : **BL-900814AC**

Call Sign : **KMTI**

LICENSEE:

**Sanpete County Broadcasting Company**

- 1. Community of License .....: **Manti, UT**
- 2. Transmitter location .....: **On Cemetery Lane  
3.2 km north of center of  
Manti, Utah**
- North latitude .....: **39° 17' 39"**
- West longitude .....: **111° 38' 13"**
- 6. Antenna and ground system: **Attached**

- 3. Transmitter(s): Type Accepted. (See Sections 73.1660, 73.1665 and 73.1670 of the Commission's rules)
- 4. Main Studio location: (See Section 73.1125)  
**1600 Riverlane Road  
Sanpete County  
Manti, Utah**
- 5. Remote control location:  
**(same)**

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: **1, 3, 11, 21 and 22.**

8. Frequency .....: **650** kHz

9. Nominal power (kW) .....: **10.0** Day **0.90** Night

Antenna input power (kW) :

- 10.5 kw** Day  Non-directional antenna:
- Directional antenna : current **14.51** amperes; resistance **50** ohms.
- 0.97 kw** Night  Non-directional antenna:
- Directional antenna : current **4.4** amperes; resistance **50** ohms.

10. Hours of operation: Specified in **BP-870330AM and BP-890911AE**

11. Conditions .....: **Attached**

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,<sup>1</sup> the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time

**October 1, 1997**

The Commission reserves the right during said license period of terminating this license or making effective any change, 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 license 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.

The license is issued on the licensee's representation that the statements contained in the 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, as amended. 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, as amended.

<sup>1</sup> This license consists of this page and pages **2, 3 and 4**

Dated: **DEC 11 1990**

FEDERAL  
COMMUNICATIONS  
COMMISSION



SKN/ed

**DEC 11 1990**

CP. FILE NO. BP-890911AE

FILE NO. BL-900814AC

**1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Two (2) vertical, triangular, guyed, series-excited steel radiators of uniform cross section. Theoretical RMS: 961.08 mV/m/km Daytime; 267.20 mV/m/km Night. Standard RMS: 1009.68 mV/m/km Daytime; 280.80 mV/m/km Night. Q factor: 31.62 Daytime; 10.0 Night.

Height above Insulators: 102.5 meters (80°).

Overall Height: 103.7 meters

Spacing and Orientation: With tower #1(W) as reference, tower #2(E) is spaced 165° on a line bearing 91.5° True.

Non-Directional Antenna: None Used.

Ground System consists of 120 equally spaced, buried, copper radials about the base of each tower extending 115.3 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded, plus 120 additional equally spaced copper radials extending 15.24 m in length about the base of each tower.

**2. THEORETICAL SPECIFICATIONS**

	Tower #1(W)	#2(E)
Phasing:		
Night	0°	22°
Day	0°	87.5°

Field Ratio:		
Night	1.0	1.105
Day	1.0	1.750

**3. OPERATING SPECIFICATIONS**

Phase Indication*:		
Night	0°	21.3°
Day	0°	90.0°

Antenna Base Current Ratio		
Night:	1.0	1.11
Day	1.0	1.786

Antenna Monitor Sample Current Ratio:		
Night	0.724	0.800
Day	0.55	1.0

\* As indicated by Potomac Instruments AM-19 (204) Antenna Monitor

Antenna sampling system approved under section 73.68(b) rules.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINT

Direction of 271.5 degree True North. From transmitter Gateway turn right on Cemetery Lane Road and proceed south 1.4 miles to intersection of Cemetery Lane Rd. and U.S. Highway 89. Turn right onto Highway and proceed .1 miles to 500 North in Manti and turn right again and drive West on 500 North and Riverlane Road 2.7 miles past the KMTI Radio Studios to a fork in the road west of the Sanpitch River Bridge. Turn right at fork in River Lane Road and drive 1.1 miles to #1 Monitor Point which is marked with a white monitor post on East side of fence line. Reading is to be taken 8 paces due West of Monitor Post on the east side of Gravel Roadway. This is point #37 on the 271.5 degree radial, at a distance of 4.6 kilometers from transmitter. The field strength at this point should not exceed 33.7 mV/m Nighttime.

Direction of 108 degree True North. From Nighttime Monitor Point #1 drive south on Riverlane Road 1.1 miles to fork in road and turn left driving east on Riverlane road 2.7 miles (passing the KMTI Studios) to intersection of 500 North street in Manti and US Highway 89. Turn left on Highway 89 and drive north 1.5 miles. At large livestock feed lot turn right on farm lane and proceed 0.7 mile east on road to farm feed lot. Drive through the metal gates 0.3 mile eastward to a wire gate. Turn right and travel 0.4 mile south on jeep trail to white monitor post located 30 feet east of north/south fence line. Reading is to be taken next to the monitor post. This is Point #27 on the 108 degree radial at a distance of 2.8 kilometers from the transmitter. The field strength at this point should not exceed 17.3 mV/m Nighttime.

Direction of 75 degree True North. From nighttime monitoring point #2, drive north 0.4 mile to wire gate, turn left and travel 0.3 mile west to metal gates. Continue to drive west 0.7 mile to US Highway 89. Turn right on highway and proceed north 0.4 mile. Turn right at the farm lane and travel 0.5 mile due east past turkey sheds. Turn left at the fork and drive 0.1 mile north to white monitor post. the post is located on a fence line running north/south. Reading is to be taken 15 paces due west of the monitor post. This is Point #24 on the 75 degree radial at a distance of 2.5 kilometers from the transmitter. The field strength measured at this point should not exceed 22.1 mV/m Nighttime.

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DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINT:

Direction of 147.5 degree True North. From transmitter Gateway turn right on Cemetery Lane Rd. and proceed South 1.4 miles to intersection of Cemetery Lane Rd. and U.S. Highway 89. Cross Highway 89 and drive south on 100 East in Manti to 300 North. Turn left on 300 North and travel East 1 mile to end of road which rounds a small hill, and passes by a farm house and feed lot. The road then turns North--proceed to a wire gate and a East/West fence line. A White Monitor Post marks the #1 Daytime monitor Point on the East side of the road. The reading should be taken 7 paces due north of the Monitor Post on East side of roadway. This is point 27 on the 147.5 degree radial, at a distance of 3.1 kilometers from the transmitter. The field strength at this point should not exceed 139.1 mV/m Daytime.

Direction of 91.5 degree True North. From Daytime Monitoring Point #1 drive South on gravel road past farm house and around small hill to 300 North in Manti. Proceed West on 300 North Street to 100 East Street and turn right. Drive north to Highway 89 and turn right on the highway and proceed northeast 1.4 miles. At large livestock feed lot turn right on Farm Lane and drive 0.7 miles east on road to a farm feed yard. Park vehicle and cross fence on North side of Farm Road. Walk east to top of field and North/South Fence Line. Walk north along fence line 110 paces to white monitoring post on fence line. Reading is to be taken 8 paces due West of White Monitor Post. This is point #21 on the 91.5 Radial, at a distance of 2.3 kilometers from Transmitter. The field strength at this point should not exceed 491.3 mV/m Daytime.

Direction of 35.5 degree True North. From Daytime Monitoring point #2 walk back to vehicle and drive West 0.7 miles on farm road to U.S. Highway 89. At highway turn right and travel 2.5 miles north to Manti/Ephraim Airport Road. Turn left and drive .3 mile west to the #3 daytime radial White Monitoring Post located on East/West Fence Line on the North side of the roadway. Reading is to be taken 5 paces due South of White Monitoring Post on the North shoulder of paved Airport Roadway. This is point #30 on the 35.5 degree radial, at a distance of 4.25 kilometers from transmitter. The field strength at this point should not exceed 105.7 mV/m Daytime.