

AM BROADCAST STATION LICENSE

Call Sign : KKOJ

LICENSEE: Kleven Broadcasting Company of Minnesota

- 1. Community of License . . . : Jackson, MN
- 2. Transmitter location . . . . : 6 mi. S. on Highway 71  
near Jackson, MN

North Latitude . . . . . : 43° 31' 45"  
West Longitude . . . . . : 95° 00' 05"

- 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)  
Highway 71 South  
Jackson, MN

5. Remote control location  
Highway 71 South  
Jackson, MN

- 7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: None Required.

8. Frequency . . . . . : 1190 kHz

9. Nominal power (kW) . . . . . : 5.0 Day --- Night

Antenna input power (kW) :

5.4	Day	<input type="checkbox"/> Non-directional antenna	current	10.4	amperes:	resistance	50.0	ohms.
		<input checked="" type="checkbox"/> Directional antenna	:					
---	Night	<input type="checkbox"/> Non-directional antenna	current		amperes:	resistance		ohms.
		<input type="checkbox"/> Directional antenna	:					

10. Hours of operation : BP-891213AD

11. Conditions . . . . . :

2/14/96: This supersedes authorization as of same date to correct  
phase indication of tower #1.

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

April 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.

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 control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

JAV:rao

FEDERAL  
COMMUNICATIONS  
COMMISSION



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

Dated:

File No.: BL-940418AD

Call Sign: KKOJ

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

**No. and Type of Elements:** Four (4) vertical, guyed, series-excited, steel radiators of uniform cross section. Theoretical RMS: 664.71 mV/m; Standard RMS: 698.34 mV/m. Q: 22.36. All values at 1 km, Day.

**Height above Insulators:** 58 m (82.8°)

**Overall Height:** 59.5 m

**Spacing and Orientation:** With tower #2 as reference: tower #1 is spaced 69.4 m (99.2°) on a bearing of 287° T; tower #3 & #4 are spaced 65.4 m (93.4°) & 129 m (184.6°) respectively at a bearing of 107° T.

**Non-Directional Antenna:** None used.

**Ground System consists of 120** equally spaced buried copper radials 63 m in length except where intersecting radials are shortened and bonded to copper strap.

2. **THEORETICAL SPECIFICATIONS**

<b>Towers:</b>	#1	#2	#3	#4
<b>Phasing:</b>	-95.1°	0°	-12.5°	41.3°
<b>Field Ratio:</b>	0.805	1.000	0.128	0.323

3. **OPERATING SPECIFICATIONS**

<b>Phase Indication*:</b>	-89.5°	0°	-10.3°	37.4°
<b>Antenna Base Current Ratio:</b>	0.760	1.000	0.120	0.287
<b>Antenna Monitor Sample Current Ratio:</b>	0.770	1.000	0.122	0.303

\* As indicated by Potomac Instruments AM-19 (204) Antenna Monitor.  
Antenna sampling system approved under Section 73.68 (b) of the Rules.

**DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:**

**Direction of 64° True North.** From KKOJ transmitter east to US 71, then right (south) on US 71 0.5 miles to CR 4. Turn left (east) on CR 4 and continue 3.7 miles to curve. Follow curve and continue 2.3 miles north to monitor point. Location #17 lies 5.5 kilometers from the transmitter and is next to small tree on west side of road. The normal daytime reading here is 5.0 mV/m. The field intensity measured at this point should not exceed 6.2 mV/m.

**Direction of 81.5° True North.** From KKOJ transmitter east to US 71, then right (south) on US 71 0.5 miles to CR 4. Turn left (east) on CR 4 and continue 3.7 miles to curve. Follow curve and continue 1.15 miles north to monitor points. Location #18 lies 6.1 kilometers from the transmitter, and is next to farm on east side of road. The normal daytime reading here is 3.5 mV/m. The field intensity measured at this point should not exceed 7.3 mV/m.

**Direction of 132.5° True North.** From KKOJ transmitter east to US 71, then right (south) on US 71 0.5 miles to CR 4. Turn left (east) on CR 4 and continue 2 miles to CR 25. Turn right (south) on CR 25 and continue 1.8 miles to monitor point. Location #18 lies 5.2 kilometers from the transmitter, which is at a large dead pine tree north of a farmhouse. The normal daytime reading here is 1.9 mV/m. The field intensity measured at this point should not exceed 6.5 mV/m.

**Direction of 150° True North.** From KKOJ transmitter east to US 71, then right (south) on US 71 0.5 miles to CR 4. Turn left (east) on CR 4 and continue 2 miles to CR 25. Turn right (south) on CR 25 and continue 3.6 miles to monitor point. Location #20 lies 7.7 kilometers from the transmitter, next to a "curve ahead" sign. The normal daytime reading here is 2.8 mV/m. The field intensity measured at this point should not exceed 4.5 mV/m.

**Direction of 287° True North.** From KKOJ transmitter east to US 71, then right (south) on US 71 0.5 miles to CR 4. Turn right (west) on CR 4 and continue 3 miles to gravel road. Turn right (north) and continue 1.5 miles. Turn left (west) and continue 0.7 miles to monitor point. Location #18 lies 5.8 kilometers from the transmitter, even with a farm driveway. The normal daytime reading here is 120 mV/m. The field intensity measured at this point should not exceed 132.1 mV/m.