

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No.: BL-800128AJ

Call Sign: K D S J

STANDARD BROADCAST STATION LICENSE

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, ¹the LICENSEE

ELI DANIELS AND HARRY DANIELS d/b as THE HEART OF THE BALCK HILLS STATION

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 **April 1, 1983**

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

- On a frequency of **980** kHz.
- With nominal power of **1 kilo** watts nighttime and **5 kilo** watts daytime, with antenna input power of **1.08 kilowatts** - directional antenna nighttime and antenna input power of **5 kilo** watts non directional antenna daytime

[common point	current	3.93	amperes
		resistance	70	ohms,
[antenna	current	15.8	amperes
		resistance	20	ohms

3. Hours of operation: **Unlimited:**

Average hours of sunrise and sunset:

- Jan. 7:30am to 4:45pm; Feb. 7:00am to 5:30pm;
- Mar. 6:15am to 6:00pm; Apr. 5:15am to 6:45pm;
- May 4:30am to 7:15pm; June 4:15am to 7:45pm;
- July 4:15am to 7:30pm; Aug. 5:00am to 7:00pm;
- Sep. 5:30am to 6:15pm; Oct. 6:15am to 5:15pm;
- Nov. 6:45am to 4:30pm; Dec. 7:30am to 4:15pm;

Mountain Standard Time (non-advanced)

- With the station located at: **Deadwood, South Dakota**
- With the main studio located at: **745 Main Street, Deadwood, South Dakota**

Remote control point: **745 Main Street, Deadwood, South Dakota**

- Transmitter location: **On Hwy. 14, 3 miles E. of Deadwood, South Dakota**

North Latitude:	44 ° 23 ' 09 "
West Longitude:	103 ° 40 ' 09 "

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

9. Transmitter(s): **FCC 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 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.

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 shall, 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 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. 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.

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

FEDERAL
COMMUNICATIONS
COMMISSION



Dated: **July 29, 1980**

File No.: BL-800128AJ

Call Sign: K D S J

Date: 7-29-80

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- N

No. and Type of Elements: Two triangular, uniform, cross section, series excited vertical steel radiators. Estimated radiation 183 mV/m/kW, Day.

Height above Insulators: 197' (71°)

Overall Height: 201'

Spacing and Orientation: Spaced 540' (194°) on a line bearing 165°T.

Non-Directional Antenna: S (#2) used with N (#1) tower floating.

Ground System consists of 120 equally spaced buried copper radials 250' long plus a 20' square copper ground screen at the base of each tower. Radials between towers shortened and bonded to common screen strap.

	N(#1)	S(#2)
2. THEORETICAL SPECIFICATIONS		
Phasing:	0°	
Field Ratio:	1.0	
3. OPERATING SPECIFICATIONS		
Phase Indication*:	-28°	0°
Antenna Base Current Ratio:	1.0	.980
Phase Monitor Sample Current Ratio:	1.0	.980

*As indicated by Clarke, Type 108-C antenna monitor.

Point # 1, direction of 125° true North. From the transmitter building proceed south through wire gate; thence about 100 feet and turn left (east) on old dirt road. Proceed eastward through bushes past fence line running north and south on past old cabin on right at approximately 0.85 mile - proceed on down hill and across swail, bearing to the right - center woods on road and keep to the right - continue on past old building left and to old log house on left. Monitoring post marker is just to the south of the old log cabin and is marked "KDSJ No. 1". Monitoring post for measurement is approximately 300 feet across gully just east of fork in gully where marker sign is on pine tree. In the event there is water in the gully and it is impossible, the measurements can be taken at the post in front of the old cabin and the reading will be slightly higher and measured 18.5 mv/m. But, it is about 300 feet short of one mile. The field intensity measured at this point should not exceed 34.5mv/m, NIGHT.

Point #2, direction of 232° true North. From the transmitter building proceed North on the road to Highway No. 14; begin measuring distance, thence turn left (west) on highway and proceed past junction of Highway No. 14 and No. 85. Keep on left or straight ahead toward Deadwood City. At 3.1 mile from junction of transmitter road and Highway No. 14, turn south (left) on Dunlop Avenue - proceed on across railroad tracks and bridge - on up slight hill and turn left on Railroad Avenue - proceed east (left) about 300 yards to where road turns 90° to right and proceed south on up Spruce Gulch for 1.1 mile. Keep left at forks in road and proceed on past the Belle Eldridge mine about 1/8 mile and if chain gate is locked it will be necessary to proceed on foot to monitoring point. This is marked by a sign on large pine tree on right side of roadway. Measurement is taken on road way opposite pine tree. Monitoring point is approximately 300 feet past the chain gate or Belle Eldridge mine building on right. The field intensity measured at this point should not exceed 42.5 mv/m, NIGHT

Point #3, direction of 354.5° true North. From the transmitter building proceed to north (left) and at junction with transmitter road and highway start measuring distance. Proceed left (west) on highway No. 14 toward Deadwood City; at 2.4 miles (junction of highways No. 14 and No. 85) turn sharp right - double back almost northeast on Highway No. 85 toward Spearfish to a point just past the Cole Construction Company's gravel pit on right side of highway - at 5.3 miles turn right (east) on gravel road and proceed east 1.5 mile (total 6.8 miles) to "T" in road - turn right (south) and proceed about 0.5 mile past slight turn to left in road to "T" in road and turn left (east). From here proceed 0.5 mile east past old rock school house. Monitoring post is on the left side of roadway. Reading is taken 100 feet to north of road in field. The field intensity measured at this point should not exceed 8.2 mv/m, NIGHT.