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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: UNION PACIFIC RAILROAD COMPANY

ATTN: THOMAS J MCGOVERN
UNION PACIFIC RAILROAD COMPANY
1400 DOUGLAS ST, STOP 0640
OMAHA, NE 68179

Table with 2 columns: Call Sign (KNJZ613), File Number, Radio Service (IG - Industrial/Business Pool, Conventional), Regulatory Status (PMRS), Frequency Coordination Number.

FCC Registration Number (FRN): 0001539048

Table with 4 columns: Grant Date (12-20-2014), Effective Date (12-20-2014), Expiration Date (01-06-2025), Print Date.

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address: 481 GENERAL SIEBEN DRIVE, City: HASTINGS, County: DAKOTA, State: MN, Lat (NAD83): 44-44-26.8 N, Long (NAD83): 092-53-22.2 W, ASR No.: , Ground Elev: 274.0
Loc. 2 Address: 2600 E 117TH ST, City: INVER GROVE HEIGHTS, County: DAKOTA, State: MN, Lat (NAD83): 44-46-39.6 N, Long (NAD83): 093-02-57.8 W, ASR No.: 1046593, Ground Elev: 272.0
Loc. 3 Address: RICE LAKE MW, 3322 NE 74TH AVE, City: OWATONNA, County: STEELE, State: MN, Lat (NAD83): 44-07-12.7 N, Long (NAD83): 093-05-12.0 W, ASR No.: 1060193, Ground Elev: 395.3
Loc. 4 Address: 64671 365th STREET, City: BUTTERFIELD, County: WATONWAN, State: MN, Lat (NAD83): 43-57-32.8 N, Long (NAD83): 094-47-07.1 W, ASR No.: , Ground Elev: 357.0
Loc. 5 Address: 1068 STAGECOACH RD, City: VALLEY PARK, County: SCOTT, State: MN, Lat (NAD83): 44-47-15.2 N, Long (NAD83): 093-24-38.7 W, ASR No.: , Ground Elev: 225.2
Loc. 6 Address: M/W BLDG 1.6 MI SE OF RADCLIFFE, City: RADCLIFFE, County: HARDIN, State: IA, Lat (NAD83): 42-18-42.0 N, Long (NAD83): 093-26-36.0 W, ASR No.: 1061861, Ground Elev: 365.8

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Fixed Location Address or Mobile Area of Operation

Loc. 7 Area of operation

Operating within a 40.0 km radius around 44-44-26.8 N, 092-53-22.2 W, HASTINGS, DAKOTA county, MN

Loc. 8 Area of operation

Operating within a 40.0 km radius around 44-07-12.7 N, 093-05-12.0 W, OWATONNA, STEELE county, MN

Loc. 9 Area of operation

Operating within a 40.0 km radius around 42-18-42.0 N, 093-26-36.0 W, RADCLIFFE, HARDIN county, IA

Loc. 10 Area of operation

Operating within a 16.0 km radius around 44-47-15.2 N, 093-24-38.7 W, VALLEY PARK, SCOTT county, MN

Loc. 11 Area of operation

Operating within a 30.0 km radius around 43-57-32.8 N, 094-47-07.1 W, BUTTERFIELD, WATONWAN county, MN

Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	000160.48500000	FB	1		11K2F3E 4K00F1E	50.000	70.000	49.0	64.0	
1	1	000160.84500000	FB	1		11K2F3E 4K00F1E	50.000	70.000	49.0	64.0	
1	1	000161.04000000	FB	1		11K2F3E 4K00F1E	50.000	70.000	49.0	64.0	
1	1	000160.60500000	FB2C	1		11K2F3E 4K00F1E	50.000	70.000	49.0	64.0	09-11-2003
2	1	000161.17500000	FB	1		11K2F3E 4K00F1E	45.000	51.000	11.0	15.0	
2	2	000160.48500000	FB	1		11K2F3E 4K00F1E	45.000	50.000	19.8	24.0	03-06-2015
3	1	000160.48500000	FB	1		11K2F3E 4K00F1E	50.000	43.000	76.0	97.0	
3	1	000160.84500000	FB	1		11K2F3E 4K00F1E	50.000	43.000	76.0	97.0	

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Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
3	1	000161.04000000	FB	1		11K2F3E 4K00F1E	50.000	43.000	76.0	97.0	
3	1	000161.23500000	FB2C	1		11K2F3E 4K00F1E	50.000	43.000	76.0	97.0	09-11-2003
4	1	000160.45500000	FB	1		11K2F3E 4K00F1E	40.000	86.000	30.0	26.0	
4	1	000161.04000000	FB	1		11K2F3E 4K00F1E	40.000	86.000	30.0	26.0	
4	1	000160.57500000	FB	1		11K2F3E 4K00F1E	50.000	90.000	30.0	26.0	11-15-2006
5	1	000160.45500000	FB	1		11K2F3E 4K00F1E	45.000	54.000	19.8	-24.0	
5	1	000160.89000000	FB	1		11K2F3E 4K00F1E	45.000	54.000	19.8	-24.0	
5	1	000161.04000000	FB	1		11K2F3E 4K00F1E	45.000	54.000	19.8	-24.0	
5	1	000161.17500000	FB	1		11K2F3E 4K00F1E	45.000	54.000	19.8	-24.0	
5	2	000161.29500000	FB2	1		11K2F3E 4K00F1E	5.000	5.900	14.3	-29.0	02-04-2005
6	1	000161.23500000	FB2	1		11K2F3E 4K00F1E	50.000	57.000	21.0	36.0	
6	1	000160.60500000	FB2C	1		11K2F3E 4K00F1E	50.000	57.000	21.0	36.0	
6	2	000160.48500000	FB	1		11K2F3E 4K00F1E	50.000	70.000	52.0	67.0	
6	3	000161.17500000	FB	1		11K2F3E 4K00F1E	50.000	71.000	58.0	69.0	

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Antennas

Loc No.	Ant No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
6	3	000160.84500000	FB	1		11K2F3E 4K00F1E	50.000	71.000	58.0	69.0	10-31-2006
7	1	000160.78500000	MO	60		11K2F3E 4K00F1E	45.000	45.000			
7	1	000161.44500000	MO	60		11K2F3E 4K00F1E	45.000	45.000			09-11-2003
8	1	000160.78500000	MO	50		11K2F3E 4K00F1E	45.000	45.000			09-11-2003
9	1	000161.44500000	MO	50		11K2F3E 4K00F1E	45.000	45.000			09-11-2003
10	1	000161.29500000	MO	20		11K2F3E 4K00F1E	5.000	5.000			02-04-2005
10	1	000160.57500000	MO	20		11K2F3E 4K00F1E	5.000	5.000			02-04-2005
10	1	000161.02500000	MO	20		11K2F3E 4K00F1E	45.000	45.000			06-04-2015
11	1	000160.45500000	MO	25		11K2F3E 4K00F1E	45.000	45.000			03-06-2015

Control Points

Control Pt. No. 1

Address: 1400 DOUGLAS ST. STOP 0640

City: OMAHA County: DOUGLAS State: NE Telephone Number: (402)544-6090

Associated Call Signs

KA2337, KAI655

TEST TEST TEST <NA>

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Waivers/Conditions:

NONE

Reference Copy