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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: BNSF RAILWAY CO

ATTN: BNSF TELECOM FCC  
BNSF RAILWAY CO  
4515 KANSAS AVENUE  
KANSAS CITY, KS 66106

<b>Call Sign</b> WQPV693	<b>File Number</b> 0008810264
<b>Radio Service</b> LN - 902-928 MHz Location Narrowband (Non-multilateration)	
<b>Regulatory Status</b> PMRS	
<b>Frequency Coordination Number</b>	

FCC Registration Number (FRN): 0004772877

<b>Grant Date</b> 08-24-2012	<b>Effective Date</b> 01-06-2020	<b>Expiration Date</b> 08-24-2022	<b>Print Date</b> 01-07-2020
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**STATION TECHNICAL SPECIFICATIONS**

**Fixed Location Address or Mobile Area of Operation**

- Loc. 1 Address:** BNSF LS7200 MP 743.3 - EAST BARSTOW M1 &M2 - AEI  
**City:** Barstow **County:** SAN BERNARDINO **State:** CA  
**Lat (NAD83):** 34-53-00.9 N **Long (NAD83):** 116-58-45.8 W **ASR No.:** **Ground Elev:** 632.7
- Loc. 2 Address:** BNSF LS7200 MP 743.3 - EAST BARSTOW M3 - AEI  
**City:** Barstow **County:** SAN BERNARDINO **State:** CA  
**Lat (NAD83):** 34-53-00.9 N **Long (NAD83):** 116-58-45.8 W **ASR No.:** **Ground Elev:** 632.7
- Loc. 3 Address:** BNSF LS7200 MP 693.67 LUDLOW AEI  
**City:** LUDLOW **County:** SAN BERNARDINO **State:** CA  
**Lat (NAD83):** 34-43-06.3 N **Long (NAD83):** 116-09-55.0 W **ASR No.:** **Ground Elev:** 693.6

**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 (meter)	Construct Deadline Date
1	1	000913.00000000	LR	1		20K0N0N	2.000	16.000	1.5	s-137.0	08-24-2013
1	1	000902.25000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000903.75000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013

**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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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 meter	Construct Deadline Date
1	1	000910.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000911.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000915.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000917.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000918.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000920.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	1	000921.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
1	2	000902.25000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000903.75000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000910.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000911.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000913.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000915.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000917.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000918.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000920.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	2	000921.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000902.25000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000903.75000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000910.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020

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1	3	000911.50000000	LR	1		20K0N0N	2.000	10.000	1.0	s-137.0	06-06-2020
1	3	000913.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000915.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000917.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000918.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000920.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	3	000921.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-137.0	06-06-2020
1	4	000902.25000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000903.75000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000910.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000911.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000913.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000915.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000917.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000918.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000920.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
1	4	000921.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
2	1	000917.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000918.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000920.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013

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2	1	000915.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000921.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000902.25000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000903.75000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000910.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000911.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	1	000913.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	08-24-2013
2	2	000902.25000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
2	2	000903.75000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
2	2	000911.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
2	2	000910.00000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
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2	2	000921.50000000	LR	1		20K0N0N	2.000	16.000	1.5	-137.0	06-06-2020
3	1	000902.25000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	1	000903.75000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	1	000910.00000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021

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3	1	000918.50000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
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3	1	000921.50000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	2	000902.25000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	2	000903.75000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	2	000910.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
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3	2	000921.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	3	000902.25000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	3	000903.75000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	3	000910.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021

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3	3	000913.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	3	000915.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	3	000917.00000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
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3	3	000921.50000000	LR	1		20K0N0N	2.000	10.000	1.0	-78.0	01-06-2021
3	4	000902.25000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000903.75000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000910.00000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000911.50000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000913.00000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000915.00000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000917.00000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
3	4	000918.50000000	LR	1		20K0N0N	2.000	16.000	2.0	-77.0	01-06-2021
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**Control Points**

**Control Pt. No. 1**

**Address:** 4515 Kansas Ave

**City:** Kansas City **County:** WYANDOTTE **State:** KS **Telephone Number:** (913)551-4639

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**Associated Call Signs**

WNVG805

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**Waivers/Conditions:**

NONE