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

FCC Registration Number (FRN): 0004772877

|                                 |                                     |                                      |                   |
|---------------------------------|-------------------------------------|--------------------------------------|-------------------|
| <b>Grant Date</b><br>08-24-2012 | <b>Effective Date</b><br>01-06-2020 | <b>Expiration Date</b><br>08-24-2022 | <b>Print Date</b> |
|---------------------------------|-------------------------------------|--------------------------------------|-------------------|

**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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|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|----------------|-------------------------|
| 1       | 1       | 000910.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 1.5                | s-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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| 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       | 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                | s-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              |
| 2       | 2       | 000913.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 1.5                | -137.0         | 06-06-2020              |
| 2       | 2       | 000915.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 1.5                | -137.0         | 06-06-2020              |
| 2       | 2       | 000917.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 1.5                | -137.0         | 06-06-2020              |
| 2       | 2       | 000918.50000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 1.5                | -137.0         | 06-06-2020              |
| 2       | 2       | 000920.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 1.5                | -137.0         | 06-06-2020              |
| 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       | 000911.50000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 2.0                | s-77.0         | 01-06-2021              |
| 3       | 1       | 000913.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 2.0                | -77.0          | 01-06-2021              |
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| 3       | 1       | 000917.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 2.0                | -77.0          | 01-06-2021              |
| 3       | 1       | 000918.50000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 2.0                | -77.0          | 01-06-2021              |
| 3       | 1       | 000920.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 16.000      | 2.0                | -77.0          | 01-06-2021              |
| 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              |
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| 3       | 2       | 000915.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
| 3       | 2       | 000917.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
| 3       | 2       | 000918.50000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
| 3       | 2       | 000920.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
| 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              |
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| 3       | 3       | 000911.50000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | s-78.0         | 01-06-2021              |
| 3       | 3       | 000913.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
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| 3       | 3       | 000918.50000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
| 3       | 3       | 000920.00000000   | LR        | 1         |            | 20K0N0N             | 2.000                | 10.000      | 1.0                | -78.0          | 01-06-2021              |
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| 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              |
| 3       | 4       | 000920.00000000   | 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