

REFERENCE COPY

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NATIONAL SCIENCE AND TECHNOLOGY NETWORK INC

ATTN: TED S. HENRY
NATIONAL SCIENCE AND TECHNOLOGY NETWORK INC
2050 S. BUNDY DRIVE, SUITE 285
LOS ANGELES, CA 90025

| | |
|--|--------------------|
| Call Sign WPMJ456 | File Number |
| Radio Service YG - Industrial/Business Pool, Trunked | |
| Regulatory Status PMRS | |
| Frequency Coordination Number | |

FCC Registration Number (FRN): 0006613392

| | | | |
|---------------------------------|-------------------------------------|--------------------------------------|-------------------|
| Grant Date 06-15-2013 | Effective Date 12-06-2013 | Expiration Date 08-12-2023 | Print Date |
|---------------------------------|-------------------------------------|--------------------------------------|-------------------|

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** SAN RAFAEL HILLS
City: GLENDALE **County:** LOS ANGELES **State:** CA
Lat (NAD83): 34-09-35.0 N **Long (NAD83):** 118-11-06.3 W **ASR No.:** N/A **Ground Elev:** 488.0
- Loc. 2 Address:** SANTA MONICA MOUNTAINS
City: MONTE NIDO **County:** LOS ANGELES **State:** CA
Lat (NAD83): 34-04-59.0 N **Long (NAD83):** 118-38-28.3 W **ASR No.:** N/A **Ground Elev:** 785.0
- Loc. 3 Address:** MOUNT LUKENS
City: LA CRESCENTA **County:** LOS ANGELES **State:** CA
Lat (NAD83): 34-16-08.0 N **Long (NAD83):** 118-14-20.3 W **ASR No.:** N/A **Ground Elev:** 1545.0
- Loc. 4 Address:** SANTIAGO PEAK SW
City: CORONA **County:** LOS ANGELES **State:** CA
Lat (NAD83): 33-42-38.1 N **Long (NAD83):** 117-32-03.2 W **ASR No.:** N/A **Ground Elev:** 1731.0
- Loc. 5 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: CA
- Loc. 6 Area of operation**
Operating within a 32.0 km radius around fixed location 1
- Loc. 7 Area of operation**
Operating within a 32.0 km radius around fixed location 2
- Loc. 8 Area of operation**
Operating within a 32.0 km radius around fixed location 3

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. 9 Area of operation
Operating within a 121.0 km radius around fixed location 4

Loc. 10 Area of operation
Operating within a 32.0 km radius around fixed location 4

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 | 000452.30000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | s144.0 | |
| 1 | 1 | 000452.32500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 1 | 1 | 000452.37500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 1 | 1 | 000452.42500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 1 | 1 | 000452.62500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 1 | 1 | 000452.65000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 1 | 1 | 000452.70000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 1 | 1 | 000452.75000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 37.0 | 144.0 | |
| 2 | 1 | 000452.30000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.32500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.37500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.42500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.62500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.65000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.70000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 2 | 1 | 000452.75000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 35.0 | 526.0 | |
| 3 | 1 | 000452.30000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |

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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 |
|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|----------------|-------------------------|
| 3 | 1 | 000452.32500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 3 | 1 | 000452.37500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 3 | 1 | 000452.42500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 3 | 1 | 000452.62500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 3 | 1 | 000452.65000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 3 | 1 | 000452.70000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 3 | 1 | 000452.75000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 30.0 | 771.0 | |
| 4 | 1 | 000452.30000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.32500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.37500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.42500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.62500000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.65000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.70000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 1 | 000452.75000000 | FB6 | 1 | | 11K2F3E | 75.000 | 750.000 | 21.0 | 1150.0 | |
| 4 | 2 | 000452.32500000 | FB8 | 1 | | 4K00F2D 4K00F7W | 30.000 | 30.000 | 21.0 | 1115.8 | 12-06-2014 |
| 4 | 2 | 000452.30000000 | FB6 | 1 | | 4K00F2D 4K00F7W | 30.000 | 30.000 | 21.0 | 1115.8 | 12-06-2014 |
| 4 | 2 | 000452.62500000 | FB6 | 1 | | 4K00F2D 4K00F7W | 30.000 | 30.000 | 21.0 | 1115.8 | 12-06-2014 |
| 4 | 2 | 000452.65000000 | FB6 | 1 | | 4K00F2D 4K00F7W | 30.000 | 30.000 | 21.0 | 1115.8 | 12-06-2014 |

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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 meter | Construct Deadline Date |
|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|----------------|-------------------------|
| 4 | 2 | 000452.70000000 | FB6 | 1 | | 4K00F2D 4K00F7W | 30.000 | 30.000 | 21.0 | s1115.8 | 12-06-2014 |
| 4 | 2 | 000452.75000000 | FB6 | 1 | | 4K00F2D 4K00F7W | 30.000 | 30.000 | 21.0 | 1115.8 | 12-06-2014 |
| 5 | 1 | 000457.30000000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.32500000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.37500000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.42500000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.62500000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.65000000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.70000000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 5 | 1 | 000457.75000000 | FX1T | 750 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000452.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |

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|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|------------------|-------------------------|
| 6 | 1 | 000457.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 6 | 1 | 000457.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000452.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |

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|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|------------------|-------------------------|
| 7 | 1 | 000457.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 7 | 1 | 000457.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000452.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 8 | 1 | 000457.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |

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|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|------------------|-------------------------|
| 9 | 1 | 000452.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000452.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.30000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.32500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.37500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.42500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.62500000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.65000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.70000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 9 | 1 | 000457.75000000 | MO | 5000 | | 11K2F3E | 25.000 | 25.000 | | | |
| 10 | 1 | 000457.32500000 | MO8 | 5000 | | 4K00F2D 4K00F7W | 25.000 | 25.000 | | | 12-06-2014 |
| 10 | 1 | 000457.30000000 | MO6 | 5000 | | 4K00F2D 4K00F7W | 25.000 | 25.000 | | | 12-06-2014 |
| 10 | 1 | 000457.62500000 | MO6 | 5000 | | 4K00F2D 4K00F7W | 25.000 | 25.000 | | | 12-06-2014 |
| 10 | 1 | 000457.65000000 | MO6 | 5000 | | 4K00F2D 4K00F7W | 25.000 | 25.000 | | | 12-06-2014 |

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|---------|---------|-------------------|-----------|-----------|------------|---------------------|----------------------|-------------|--------------------|----------------|-------------------------|
| 10 | 1 | 000457.70000000 | MO6 | 5000 | | 4K00F2D 4K00F7W | 25.000 | 25.000 | | s | 12-06-2014 |
| 10 | 1 | 000457.75000000 | MO6 | 5000 | | 4K00F2D 4K00F7W | 25.000 | 25.000 | | | 12-06-2014 |

Control Points

Control Pt. No. 1

Address: 2050 S. Bundy Dr., Suite 285

City: LOS ANGELES County: LOS ANGELES State: CA Telephone Number: (310)820-1234

Associated Call Signs

Waivers/Conditions:

Antenna structures for land, base and fixed stations authorized for operation at temporary unspecified locations may be erected without specific prior approval of the Commission where such antenna structures do not exceed a height of 60.96 meters (200 feet) above ground level; provided that the overall height of such antennas more than 6.10 meters (20 feet) above ground, including their supporting structures (whether natural formation or man-made), do not exceed any of the slope ratios set forth in Section 17.7(b). Any antenna to be erected in excess of the foregoing limitations requires prior Commission approval. Licensees seeking such approval should file application for modification of license. In addition, notification to the Federal Aviation Administration is required whenever the antenna will exceed 60.96 meters (200 feet) above the ground and whenever notification is otherwise required by Section 17.7 of the Commission's Rules. Such notification should be given by filing FAA Form 7460-1, Notice of Proposed Construction or Alteration, in duplicate, with the nearest office of the Federal Aviation Administration, which form is available from that office.