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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: LAING ELECTRONICS

ATTN: DOUG LAING
LAING ELECTRONICS
10962 MARIAN DRIVE
GARDEN GROVE, CA 92840

Call Sign WQKR933	File Number 0008700787
Radio Service YG - Industrial/Business Pool, Trunked	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0005749122

Grant Date 06-22-2019	Effective Date 06-22-2019	Expiration Date 08-27-2029	Print Date 06-22-2019
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1 Address:** Mount Wilson
City: Pasadena **County:** LOS ANGELES **State:** CA
Lat (NAD83): 34-13-32.0 N **Long (NAD83):** 118-03-55.2 W **ASR No.:** **Ground Elev:** 1743.0
- Loc. 2 Address:** Elsinore Peak
City: Lake Elsinore **County:** RIVERSIDE **State:** CA
Lat (NAD83): 33-36-08.1 N **Long (NAD83):** 117-20-38.1 W **ASR No.:** **Ground Elev:** 1073.0
- Loc. 3 Address:** Otay Mountain
City: Dulzura **County:** SAN DIEGO **State:** CA
Lat (NAD83): 32-35-54.2 N **Long (NAD83):** 116-50-38.1 W **ASR No.:** **Ground Elev:** 1036.0
- Loc. 4 Area of operation**
Operating within a 80.0 km radius around fixed location 1
- Loc. 5 Area of operation**
Operating within a 80.0 km radius around fixed location 1
- Loc. 6 Area of operation**
Operating within a 80.0 km radius around fixed location 2
- Loc. 7 Area of operation**
Operating within a 80.0 km radius around fixed location 2
- Loc. 8 Area of operation**
Operating within a 80.0 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 80.0 km radius around fixed location 3

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	000461.80000000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	13.0	901.0	08-27-2010
1	1	000463.85000000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	13.0	901.0	08-27-2010
1	1	000464.75000000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	13.0	901.0	08-27-2010
1	1	000464.81250000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	13.0	901.0	08-27-2010
2	1	000461.42500000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	524.0	08-27-2010
2	1	000461.71250000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	524.0	08-27-2010

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2	1	000464.10000000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	524.0	08-27-2010
2	1	000464.13750000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	524.0	08-27-2010
2	1	000464.26250000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	524.0	08-27-2010
2	1	000464.46250000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	524.0	08-27-2010
3	1	000463.30000000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	728.0	08-27-2010
3	1	000463.41250000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	728.0	08-27-2010
3	1	000463.68750000	FB6	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000	30.0	728.0	08-27-2010

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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 meters	Construct Deadline Date
4	1	000461.80000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
4	1	000463.85000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
4	1	000464.75000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
4	1	000464.81250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
4	1	000466.80000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
4	1	000468.85000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
4	1	000469.75000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010

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4	1	000469.81250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
5	1	000461.80000000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
5	1	000461.80000000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
5	1	000463.85000000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
5	1	000463.85000000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
5	1	000464.75000000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
5	1	000464.75000000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			

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5	1	000464.81250000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
5	1	000464.81250000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
5	1	000466.80000000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
5	1	000468.85000000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
5	1	000469.75000000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
5	1	000469.81250000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
6	1	000461.42500000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010

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6	1	000461.71250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000464.10000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000464.13750000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000464.26250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000464.46250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000466.42500000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000466.71250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010

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6	1	000469.10000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000469.13750000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000469.26250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
6	1	000469.46250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
7	1	000469.13750000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000469.26250000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000469.46250000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			

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7	1	000461.42500000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
7	1	000461.42500000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000461.71250000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
7	1	000461.71250000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000464.10000000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
7	1	000464.10000000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000464.13750000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			

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7	1	000464.13750000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000464.26250000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
7	1	000464.26250000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000464.46250000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
7	1	000464.46250000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000466.42500000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
7	1	000466.71250000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			

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7	1	000469.10000000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
8	1	000463.30000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
8	1	000463.41250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
8	1	000463.68750000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
8	1	000468.30000000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
8	1	000468.41250000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010
8	1	000468.68750000	MO6	100		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	75.000	200.000			08-27-2010

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9	1	000463.30000000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
9	1	000463.30000000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
9	1	000468.68750000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
9	1	000463.41250000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
9	1	000463.41250000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
9	1	000463.68750000	FB6T	1		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	100.000	500.000			
9	1	000463.68750000	FBT	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			

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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 meters	Construct Deadline Date
9	1	000468.30000000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			
9	1	000468.41250000	FX1T	50		11K2F1D 11K2F2D 11K2F3E 4K00F2D 4K00F7W	50.000	200.000			

Control Points

Control Pt. No. 1

Address: 10962 Marion Drive

City: Garden Grove **County:** ORANGE **State:** CA **Telephone Number:** (714)534-5200

Associated Call Signs

<NA>

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.