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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CALIFORNIA INSTITUTE OF TECHNOLOGY

ATTN: KATHLEEN CARPENTER  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
1200 E CALIFORNIA BLVD  
PASADENA, CA 91129

<b>Call Sign</b> WQJN229	<b>File Number</b> 0008377556
<b>Radio Service</b> IG - Industrial/Business Pool, Conventional	
<b>Regulatory Status</b> PMRS	
<b>Frequency Coordination Number</b>	

FCC Registration Number (FRN): 0018144642

<b>Grant Date</b> 09-22-2018	<b>Effective Date</b> 09-22-2018	<b>Expiration Date</b> 11-05-2028	<b>Print Date</b> 09-22-2018
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**STATION TECHNICAL SPECIFICATIONS**

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

**Loc. 1 Address:** MILIKEN BUILDING  
**City:** PASADENA      **County:** LOS ANGELES      **State:** CA  
**Lat (NAD83):** 34-08-12.6 N    **Long (NAD83):** 118-07-33.6 W    **ASR No.:** N/A    **Ground Elev:** 233.0

**Loc. 2 Area of operation**  
Operating within a 16.0 km radius around fixed location 1

**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	000463.96250000	FB2	1		11K2F3E 7K60FXE	50.000	75.000	56.0	868.0	11-05-2009
1	1	000462.16250000	FB2	1		7K60FXE	50.000	75.000	56.0	68.0	05-03-2017
1	1	000462.22500000	FB2	1		11K2F3E	50.000	75.000	56.0	68.0	05-03-2017
1	1	000461.83750000	FB2	1		7K60FXE	50.000	75.000	56.0	68.0	05-03-2017

**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 s	Construct Deadline Date
2	1	000463.96250000	MO	150		11K2F3E 7K60FXE	4.000	4.000			11-05-2009
2	1	000468.96250000	MO	150		11K2F3E 7K60FXE	4.000	4.000			11-05-2009
2	1	000467.16250000	MO	150		7K60FXE	4.000	4.000			05-03-2017
2	1	000462.16250000	MO	150		7K60FXE	4.000	4.000			05-03-2017
2	1	000467.22500000	MO	150		11K2F3E	4.000	4.000			05-03-2017
2	1	000462.22500000	MO	150		11K2F3E	4.000	4.000			05-03-2017
2	1	000461.83750000	MO	150		7K60FXE	4.000	4.000			05-03-2017
2	1	000466.83750000	MO	150		7K60FXE	4.000	4.000			05-03-2017

Control Points

Control Pt. No. 1

Address: 1200 E CALIFORNIA BLVD

City: PASADENA County: LOS ANGELES State: CA Telephone Number: (626)395-6811

Associated Call Signs

Waivers/Conditions:

NONE