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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: T W ELECTRONICS INC

ATTN: DAVID E TUBERGEN
T W ELECTRONICS INC
1045 S DIVISION
GRAND RAPIDS, MI 49507

Call Sign WPPF814	File Number 0006478136
Radio Service YG - Industrial/Business Pool, Trunked	
Regulatory Status PMRS	
Frequency Coordination Number	

FCC Registration Number (FRN): 0002766624

Grant Date 09-27-2014	Effective Date 09-27-2014	Expiration Date 12-01-2024	Print Date 09-27-2014
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

- Loc. 1** Address: 2189 GUNN RD
City: HOLT County: INGHAM State: MI
Lat (NAD83): 42-38-44.1 N Long (NAD83): 084-33-37.9 W ASR No.: 1055184 Ground Elev: 268.0
- Loc. 2** Address: 746 144TH ST
City: MOLINE County: ALLEGAN State: MI
Lat (NAD83): 42-44-14.1 N Long (NAD83): 085-37-16.1 W ASR No.: 1060517 Ground Elev: 280.0
- Loc. 3** Address: COR OF CLANCY COLDBROOK
City: GRAND RAPIDS County: KENT State: MI
Lat (NAD83): 42-58-58.1 N Long (NAD83): 085-39-55.1 W ASR No.: 1060519 Ground Elev: 197.0
- Loc. 4** Address: CENTERLINE RD 2 MI N
City: NEWAYGO County: NEWAYGO State: MI
Lat (NAD83): 43-26-34.1 N Long (NAD83): 085-48-07.2 W ASR No.: 1060514 Ground Elev: 256.0
- Loc. 5** Address: 155TH AVE .25 MI S OF 4 MI RD
City: MORLEY County: MECOSTA State: MI
Lat (NAD83): 43-31-28.1 N Long (NAD83): 085-23-29.1 W ASR No.: 1060516 Ground Elev: 305.0
- Loc. 6** Address: 200 FT S OF US 10 2.5 MI W OF US 131
City: CHASE County: LAKE State: MI
Lat (NAD83): 43-53-14.1 N Long (NAD83): 085-35-38.2 W ASR No.: 1060515 Ground Elev: 379.0

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. 7 Area of operation**
Land Mobile Control Station meeting the 6.1 Meter Rule: MI
- Loc. 8 Area of operation**
Operating within a 32.0 km radius around fixed location 1
- Loc. 9 Area of operation**
Operating within a 32.0 km radius around fixed location 2
- Loc. 10 Area of operation**
Operating within a 32.0 km radius around fixed location 3
- Loc. 11 Area of operation**
Operating within a 32.0 km radius around fixed location 4
- Loc. 12 Area of operation**
Operating within a 32.0 km radius around fixed location 5
- Loc. 13 Area of operation**
Operating within a 32.0 km radius around fixed location 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 meters	Construct Deadline Date
1	1	000461.63750000	FB8	1		11K2F3E	100.000	250.000	160.0	158.0	
1	1	000462.08750000	FB8	1		11K2F3E	100.000	250.000	160.0	158.0	
1	1	000463.98750000	FB8	1		11K2F3E	100.000	250.000	160.0	158.0	
1	1	000464.41250000	FB8	1		11K2F3E	100.000	250.000	160.0	158.0	
1	2	000461.41250000	FB8	1		11K2F3E	100.000	250.000	160.0	158.0	
2	1	000452.36250000	FB8	1		11K2F3E	100.000	178.000	165.0	209.0	
3	1	000451.93750000	FB8	1		11K2F3E	100.000	250.000	82.0	60.0	
3	1	000452.36250000	FB8	1		11K2F3E	100.000	250.000	82.0	60.0	
3	1	000463.53750000	FB8	1		11K2F3E	100.000	150.000	82.0	60.0	
4	1	000452.43750000	FB8	1		11K2F3E	100.000	250.000	127.0	137.0	
4	1	000453.01250000	FB8	1		11K2F3E	100.000	250.000	127.0	137.0	

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4	1	000461.78750000	FB8	1		11K2F3E	100.000	250.000	127.0	137.0	
4	1	000462.11250000	FB8	1		11K2F3E	100.000	250.000	127.0	137.0	
4	1	000464.61250000	FB8	1		11K2F3E	100.000	250.000	127.0	137.0	
5	1	000451.86250000	FB8	1		11K2F3E	100.000	250.000	77.0	95.0	
5	1	000452.46250000	FB8	1		11K2F3E	100.000	250.000	77.0	95.0	
5	1	000452.80000000	FB8	1		11K2F3E	100.000	250.000	77.0	95.0	
5	1	000461.43750000	FB8	1		11K2F3E	100.000	250.000	77.0	95.0	
5	1	000461.78750000	FB8	1		11K2F3E	100.000	250.000	77.0	95.0	
6	1	000451.37500000	FB8	1		11K2F3E	100.000	250.000	76.0	113.0	
6	1	000451.83750000	FB8	1		11K2F3E	100.000	250.000	76.0	113.0	
6	1	000452.15000000	FB8	1		11K2F3E	100.000	250.000	76.0	113.0	
6	1	000452.33750000	FB8	1		11K2F3E	100.000	250.000	76.0	113.0	
6	1	000452.67500000	FB8	1		11K2F3E	100.000	250.000	76.0	113.0	
7	1	000456.37500000	FX1	10		11K2F3E	40.000				
7	1	000456.83750000	FX1	10		11K2F3E	40.000				
7	1	000456.86250000	FX1	10		11K2F3E	40.000				
7	1	000456.93750000	FX1	10		11K2F3E	40.000				
7	1	000457.15000000	FX1	10		11K2F3E	40.000				
7	1	000457.33750000	FX1	10		11K2F3E	40.000				

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7	1	000457.36250000	FX1	10		11K2F3E	40.000				
7	1	000457.43750000	FX1	10		11K2F3E	40.000				
7	1	000457.46250000	FX1	10		11K2F3E	40.000				
7	1	000457.67500000	FX1	10		11K2F3E	40.000				
7	1	000457.80000000	FX1	10		11K2F3E	40.000				
7	1	000458.01250000	FX1	10		11K2F3E	40.000				
7	1	000466.43750000	FX1	10		11K2F3E	40.000				
7	1	000466.78750000	FX1	10		11K2F3E	40.000				
7	1	000467.11250000	FX1	10		11K2F3E	40.000				
7	1	000467.16250000	FX1	10		11K2F3E	40.000				
7	1	000468.31250000	FX1	10		11K2F3E	40.000				
7	1	000468.53750000	FX1	10		11K2F3E	40.000				
7	1	000468.73750000	FX1	10		11K2F3E	40.000				
7	1	000468.98750000	FX1	10		11K2F3E	40.000				
7	1	000469.41250000	FX1	10		11K2F3E	40.000				
8	1	000462.16250000	MO	100		11K2F3E	40.000				
8	1	000463.31250000	MO	100		11K2F3E	40.000				
8	1	000463.73750000	MO	100		11K2F3E	40.000				
8	1	000463.98750000	MO	100		11K2F3E	40.000				

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8	1	000464.41250000	MO	100		11K2F3E	40.000				
8	1	000466.41250000	MO	100		11K2F3E	40.000				
8	1	000466.63750000	MO	100		11K2F3E	40.000				
8	1	000467.08750000	MO	100		11K2F3E	40.000				
8	1	000468.98750000	MO	100		11K2F3E	40.000				
8	1	000469.41250000	MO	100		11K2F3E	40.000				
9	1	000452.36250000	MO	100		11K2F3E	40.000				
9	1	000457.36250000	MO	100		11K2F3E	40.000				
10	1	000451.93750000	MO	100		11K2F3E	40.000				
10	1	000452.36250000	MO	100		11K2F3E	40.000				
10	1	000456.93750000	MO	100		11K2F3E	40.000				
10	1	000457.36250000	MO	100		11K2F3E	40.000				
10	1	000463.53750000	MO	100		11K2F3E	40.000				
10	1	000468.53750000	MO	100		11K2F3E	40.000				
11	1	000452.43750000	MO	100		11K2F3E	40.000				
11	1	000453.01250000	MO	100		11K2F3E	40.000				
11	1	000457.43750000	MO	100		11K2F3E	40.000				
11	1	000458.01250000	MO	100		11K2F3E	40.000				
11	1	000461.78750000	MO	100		11K2F3E	40.000				

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11	1	000462.11250000	MO	100		11K2F3E	40.000				
11	1	000464.61250000	MO	100		11K2F3E	40.000				
11	1	000466.78750000	MO	100		11K2F3E	40.000				
11	1	000467.11250000	MO	100		11K2F3E	40.000				
11	1	000469.61250000	MO	100		11K2F3E	40.000				
12	1	000451.86250000	MO	100		11K2F3E	40.000				
12	1	000452.46250000	MO	100		11K2F3E	40.000				
12	1	000452.80000000	MO	100		11K2F3E	40.000				
12	1	000456.86250000	MO	100		11K2F3E	40.000				
12	1	000457.46250000	MO	100		11K2F3E	40.000				
12	1	000457.80000000	MO	100		11K2F3E	40.000				
12	1	000461.43750000	MO	100		11K2F3E	40.000				
12	1	000461.78750000	MO	100		11K2F3E	40.000				
12	1	000466.43750000	MO	100		11K2F3E	40.000				
12	1	000466.78750000	MO	100		11K2F3E	40.000				
13	1	000451.37500000	MO	100		11K2F3E	40.000				
13	1	000451.83750000	MO	100		11K2F3E	40.000				
13	1	000452.15000000	MO	100		11K2F3E	40.000				
13	1	000452.33750000	MO	100		11K2F3E	40.000				

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13	1	000452.67500000	MO	100		11K2F3E	40.000				
13	1	000456.37500000	MO	100		11K2F3E	40.000				
13	1	000456.83750000	MO	100		11K2F3E	40.000				
13	1	000457.15000000	MO	100		11K2F3E	40.000				
13	1	000457.33750000	MO	100		11K2F3E	40.000				
13	1	000457.67500000	MO	100		11K2F3E	40.000				

Control Points

Control Pt. No. 1

Address: 1045 S DIVISION AVE

City: GRAND RAPIDS **County:** KENT **State:** MI **Telephone Number:** (616)241-3645

Associated Call Signs

<NA>

Waivers/Conditions:

NONE