Mason PUD 3
Kamilche Tower
1856 W. Green Diamond 2925 Rd.
Shelton, WA 98584
FRN 0001580869

- Carbon-Free reliable power
- Generator backed
- Fiber available
- Secure facility
- 24/7 access
- Tower and collocation
- At-cost rates
- Friendly and fast staff!

TABLE OF CONTENTS

Contact PUD 3.............................2
Security Procedures ......................3
Tower Overview............................6
Tower Images..............................12
Tenant Information.........................15
RF Exposure Study........................115

Connecting our community with safe, reliable, economical, and sustainable services, 24/7.
Contacts

Emergency
911

Site Entry / Exit
360.432.5591

Contact Mason PUD 3
360.432.1550
telecomsupport@masonpud3.org

Contacting FCC
To ask questions regarding the content of the included licenses, please contact
FCC: 1-888-CALL FCC (225-5322)
TTY: 1-888-TELL FCC (835-5322)
or visit the FCC website at www.fcc.gov

Emergency Site Information

Site Name:
Mason PUD 3 Kamilche Tower

Site Address:
1856 W. Green Diamond 2925 Rd.
Shelton, WA 98584

Site FRN:
0001580869

Site LAT/LON:
47.138692, -123.140778

Site Height, AGL:
95’

Site Elevation, ASL:
1219’

Service Rules & Regs:
www.pud3.org/towerrulesandregs
Mason General Hospital
360.426.1611
For Emergencies Call 911
901 Mountain View Dr.
Shelton, WA 98584
Rope Rescue Emergency

CALL 911

Thurston County Special Operations Rescue Team (SORT)
Non-Emergency information line: 360.866.1000

ABOUT THURSTON COUNTY SORT

Thurston County SORT was established in 2007.
Here are some facts about SORT:

1. Over 40 Highly Trained Rescue Technicians
2. Multi-Agency team made up of the following departments:
   * McLane/Black Lake Fire Department (host)
   * Olympia Fire Department
   * Lacey Fire Department
   * Tumwater Fire Department
   * SE Thurston RFA
   * West Thurston RFA
   * East Olympia Fire District 6
3. Provides technical rescue services primarily to Thurston County but also all of WA Homeland Security Region 3 to include Mason, Lewis, Grays Harbor, Pacific, and Thurston counties. The team is also available for statewide responses through the WA All-Hazard Mobilization plan. Also available for EMAC deployment.
4. The team maintains a large cache of equipment strategically located throughout the core of Thurston County.
5. Team dispatched via TCOMM.
6. Team conducts training throughout the year to include an end of year evaluation.
Authorized Personnel Only

To Disarm This Facility:

• Call 360.432.5991 in to announce entry.
• Swipe badge one time.
• Orange light above card reader will go OFF.

To Arm This Facility:

• Make sure all doors are shut and reconnect gate cable and lock.
• Swipe badge one time.
• Orange light above card reader will come ON.
• Call 360.432.5991 announce exit.

Please call 360.432.5991 for assistance.

SITE INFO:

Mason County PUD No. 3
1856 W. Green Diamond 2925 Rd.
Shelton, WA 98584
(FRN#0001580869)

Site Name—Colo 2 (Kamilche Tower)
Taylor Towne
Shelton, WA 98584

Head west toward Kamilche Ln W
0.2 mi

Turn right onto 2900 Rd
1.1 mi

Turn left toward 2900 Rd
1/12 ft

Slight right onto 2900 Rd
1.1 mi

Turn left onto GD 2925 Rd
Destination will be on the left
0.7 mi

Kamilche Ridge Communications Facility
1856 W Simpson 2502 Rd, Shelton, WA 98584
KAMILCHE TOWER—NORTH WEST
KAMILCHE TOWER—SOUTH WEST
KAMILCHE TOWER— NORTH WEST
KAMILCHE TOWER— EAST CORNER
KAMILCHE TOWER— SOUTH WEST
KAMILCHE TOWER TENANTS

- AT&T / Cingular - Page 16
- Centro Familiar Cristiano - Page 20
- Calvary Chapel of Twin Falls - Page 26
- iFiberOne Radio—KMAS — Page 36
- Olympia Broadcasters—KRXY — Page 43
- MaceCom — Page 55
- Mason County Public Works — Page 79
- NW Indy Radio — Page 87
- Mason PUD 3 — Page 96
Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: New Cingular Wireless PCS, LLC

ATTN: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
200 S. AKARD ST. RM 1035
DALLAS, TX 75202

FCC Registration Number (FRN): 000391192

Call Sign WPYF411
File Number

Radio Service
CF - Common Carrier Fixed Point to Point Microwave

SMSA
Station Class FXO

<table>
<thead>
<tr>
<th>Grant Date</th>
<th>Effective Date</th>
<th>Expiration Date</th>
<th>Print Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>09-17-2013</td>
<td>10-16-2018</td>
<td>10-21-2023</td>
<td></td>
</tr>
</tbody>
</table>

LOCATION

Fixed Location Address or Area of Operation:
2900 ROAD
City: SHELTON  Country: MASON  State: WA

<table>
<thead>
<tr>
<th>Loc No.</th>
<th>Location Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>KAMILCHE</td>
<td>47-08-19.5 N</td>
<td>121-08-27.7 W</td>
<td>370.6</td>
</tr>
<tr>
<td>005</td>
<td>OYSTER BAY</td>
<td>47-05-03.7 N</td>
<td>123-02-14.8 W</td>
<td>59.7</td>
</tr>
</tbody>
</table>

Antenna Structure Registration No. N/A

FREQUENCY PATHS

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Tul (%)</th>
<th>Emission Design</th>
<th>EIRP (dBi)</th>
<th>Const</th>
<th>Path No</th>
<th>Sgn</th>
<th>EffT Loc No</th>
<th>Ant Hgt (m)</th>
<th>Gain (dBi)</th>
<th>Beam (deg)</th>
<th>POL</th>
<th>AZIM (deg)</th>
<th>Loc No</th>
<th>Call Sign</th>
</tr>
</thead>
<tbody>
<tr>
<td>11525.0</td>
<td>0.00000</td>
<td>36MED/7W</td>
<td>56.700</td>
<td>03-09-2016</td>
<td>002</td>
<td>1</td>
<td>001</td>
<td>25.9</td>
<td>37.4</td>
<td>2.2</td>
<td>V</td>
<td>127.5</td>
<td>003</td>
<td>WQU2Q284</td>
</tr>
<tr>
<td>11265.0</td>
<td>0.00000</td>
<td>40MED/7W</td>
<td>61.400</td>
<td>04-16-2021</td>
<td>003</td>
<td>1</td>
<td>001</td>
<td>25.9</td>
<td>37.4</td>
<td>2.2</td>
<td>H</td>
<td>127.5</td>
<td>003</td>
<td>WQU2Q284</td>
</tr>
<tr>
<td>11345.0</td>
<td>0.00000</td>
<td>40MED/7W</td>
<td>61.400</td>
<td>04-16-2021</td>
<td>003</td>
<td>1</td>
<td>001</td>
<td>25.9</td>
<td>37.4</td>
<td>2.2</td>
<td>H</td>
<td>127.5</td>
<td>003</td>
<td>WQU2Q284</td>
</tr>
<tr>
<td>11225.0</td>
<td>0.00000</td>
<td>40MED/7W</td>
<td>61.400</td>
<td>04-16-2021</td>
<td>004</td>
<td>1</td>
<td>001</td>
<td>25.9</td>
<td>37.4</td>
<td>2.2</td>
<td>V</td>
<td>127.5</td>
<td>003</td>
<td>WQU2Q284</td>
</tr>
<tr>
<td>11305.0</td>
<td>0.00000</td>
<td>40MED/7W</td>
<td>61.400</td>
<td>04-16-2021</td>
<td>004</td>
<td>1</td>
<td>001</td>
<td>25.9</td>
<td>37.4</td>
<td>2.2</td>
<td>V</td>
<td>127.5</td>
<td>003</td>
<td>WQU2Q284</td>
</tr>
</tbody>
</table>

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.
Waivers/Conditions:
The precision of the frequency tolerance field is limited in ULS, the actual tolerance may be tighter than shown/stored.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007), AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).
AT&T / CINGULAR WIRELESS
Centro Familiar Cristiano
Contact Information:

Centro Familiar Cristiano

10612 15th Ave SW
Seattle, WA 98146

360.340.8061 206.288.9535
(Jack Ondracek) (Oscar Arana-Acct Manager)
jack@rdiradio.com oap57@hotmail.com

After Hours:
206.658.3135
(Manuel Ling)
## CENTRO FAMILIAR CRISTIANO

### Exhibit A
**Technical Data Sheet**
**Kamilche Tower**

**Please complete one data sheet for each radio unit.**

<table>
<thead>
<tr>
<th></th>
<th>Licensee Information</th>
<th>Chief Engineer or Service Provider Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name: Centro Familiar Cristiano</td>
<td>Name: Jack Ondracek</td>
</tr>
<tr>
<td></td>
<td>Address: 10612 15th Ave SW Seattle WA 98146</td>
<td>Address:</td>
</tr>
<tr>
<td></td>
<td>Phone: (206) 763-1870</td>
<td>Phone: (206) 340-8061</td>
</tr>
</tbody>
</table>

### 3. Premises Information:

<table>
<thead>
<tr>
<th></th>
<th>Kamilche Tower</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name:</td>
<td>Kamilche Tower</td>
</tr>
<tr>
<td>PUD 3 Contract:</td>
<td>2019-19</td>
</tr>
<tr>
<td>Location at site:</td>
<td>Kamilche Tower</td>
</tr>
<tr>
<td>Latitude and Longitude: (at center of tower)</td>
<td>47° 08' 19.47&quot; N 123° 08' 27.65&quot; W</td>
</tr>
<tr>
<td>Elevation of site: (at center of tower)</td>
<td>1,215 feet</td>
</tr>
</tbody>
</table>

### 4. Equipment:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>FCC License Number: NA - PART 15</td>
</tr>
<tr>
<td>B.</td>
<td>Date FCC License Issued:</td>
</tr>
<tr>
<td>C.</td>
<td>License Expiration Date:</td>
</tr>
<tr>
<td>D.</td>
<td>Equipment Manufacturer: UBIQUITI</td>
</tr>
<tr>
<td>E.</td>
<td>Model Number: AF5U</td>
</tr>
<tr>
<td>F.</td>
<td>Class of Service (FCC Symbol):</td>
</tr>
<tr>
<td>G.</td>
<td>Type of Emission (FCC Symbol):</td>
</tr>
<tr>
<td>H.</td>
<td>AC power drain during transmission (watts): 40 watts</td>
</tr>
<tr>
<td>I.</td>
<td>Transmit output power (watts): 40 dBm</td>
</tr>
<tr>
<td>J.</td>
<td>CTCSS control tone (Hz):</td>
</tr>
<tr>
<td>K.</td>
<td>Type of unit (i.e., microwave, cell) NETWORK RADIO</td>
</tr>
<tr>
<td>L.</td>
<td>Is power on continuously?</td>
</tr>
<tr>
<td>M.</td>
<td>If amateur radio operator, is this unit:</td>
</tr>
</tbody>
</table>
EXHIBIT A  
TECHNICAL DATA SHEET  
Kamiriche Tower

5. Radio Units:

<table>
<thead>
<tr>
<th>Transmit Frequency (MHz)</th>
<th>Receive Frequency (MHz)</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>5442</td>
<td>5800</td>
<td></td>
</tr>
</tbody>
</table>

6. Dish Antennas

<table>
<thead>
<tr>
<th>Diameter (Feet)</th>
<th>Location on Tower (i.e., NW Face)</th>
<th>Height on Tower at Base of Antenna</th>
<th>Beam Path Width</th>
<th>Beam Path Length</th>
<th>Azimuth</th>
<th>Angle Tilt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>61 ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. Destination of Signal Path

N - S. Mountain

8. Additional Information:

Licensee Signature: [Signature]  
Date: 03/17/2020

PUD 3 Signature: [Signature]  
Date: 03/31/20
CENTRO FAMILIAR CRISTIANO
RDI Radio Centro Familiar Cristiano
5 GHz PTP to S. Mtn
Air Fiber MW
Calvary Fellowship of Twin Falls
Contact Information:

Calvary Fellowship of Twin Falls  
(CSN Radio)

17314 Mount Elizabeth Dr.  
Sonora, CA 95370

After-Hours:  
209.481.1672  
(Jeremy Estabrooks)  
radiotech99@gmail.com

208.420.8189  
(Ray Gomey)  
rayg@csnradio.com
## EXHIBIT A
TECHNICAL DATA SHEET
Kamilche RidgeTower

**Please complete one data sheet for each radio unit**

<table>
<thead>
<tr>
<th>1. Licensee Information</th>
<th>2. Field Engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Licensee Name: Calvary</td>
<td>Name: Jeremy Estabrooks</td>
</tr>
<tr>
<td>Chapel of Twin Falls, Inc.</td>
<td>Phone: (208)734-6633</td>
</tr>
<tr>
<td>Address: 4002N, 3300E</td>
<td>City, State, Zip: Address:17314 Mount Elizabeth Dr.</td>
</tr>
<tr>
<td>Twin Falls, ID 83301</td>
<td>City, State, Zip: Sonora, CA 95370</td>
</tr>
<tr>
<td>Phone: (209)481-1672</td>
<td>Emergency Phone: (208) 420-8189 (Ray Gorney)</td>
</tr>
</tbody>
</table>

### 3. Premises Information:
- Site Name: Kamilche Ridge Tower
- PUD 3 Contract: Kamilche Ridge Co-location facility for radios
- Location at site: (Site or building name): Kamilche Ridge Co-location facility for radios
- Latitude and Longitude: (at center of tower) Long 123° 08' 27.65" W<br>Lat 47° 08' 19.47" N<br>☑ NAD83
- Elevation of site: (at center of tower) 1,215 feet

### 4. Equipment

| A. FCC License Number: | K221DV |
| B. Date FCC License Issued: | CP pending for Kamilche location |
| C. License Expiration Date: | |
| D. Equipment Manufacturer: | Crown Broadcast |
| E. Model Number: | FM150 or similar |
| F. Class of Service (FCC Symbol): | D |
| G. Type of Emission (FCC Symbol): | |
| H. AC power drain during transmission (watts): | 166W @ 120 VAC continuous |
| I. Transmit output power (watts): | 64 |
| J. CTCSS control tone (Hz): | n/a |
| K. Type of unit (i.e., microwave, cellular): | FM Broadcast Translator |
| L. Is power on continuously? | Yes |
| M. If amateur radio operator, is this unit: | ☑ Voice ☐ Packet |

EXHIBIT A
TECHNICAL DATA SHEET
Kamilche Ridge Tower

5. **Units (Transmitter only or Transmitter/Receiver):**

<table>
<thead>
<tr>
<th>Transmit Frequency (MHz)</th>
<th>Receive Frequency (MHz)</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>92.1 MHz</td>
<td>89.7 MHz (see dish antenna)</td>
<td></td>
</tr>
</tbody>
</table>

6. **Dish Antennas**

<table>
<thead>
<tr>
<th>Diameter (feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
<th>Beam Path Width</th>
<th>Beam Path Length</th>
<th>Azimuth</th>
<th>Angle Tilt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NE leg</td>
<td>25°</td>
<td>1 foot</td>
<td></td>
<td>30°</td>
<td></td>
</tr>
</tbody>
</table>

7. **Pole (Stick) or other type Antennas**

<table>
<thead>
<tr>
<th>Length (feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
</tr>
</thead>
</table>

8. **Destination of Signal Path:** Omni-directional toward Olympia

9. **Additional Information:**

---

EXHIBIT A

TECHNICAL DATA SHEET

Kamilche Tower
CALVARY CHAPEL OF TWIN FALLS, INC.

Mason County PUD 3

Escalation/Contact Profile

Retailer: Calvary Chapel of Twin Falls, Inc.

General Business Phone #: 208.734.6633

Address: 4002N, 3300E, Twin Falls, ID 83301

Fax #: (208) 736-1958

Website: http://csnradio.com

Account Manager: Lois Mills Phone #: 208.734.6633

Pager#: 

Mobile#: 

E-mail: loism@csnradio.com

Technical/NOC center Phone #: see below

After Hours contact:

#1
Name: Ray Gormey
Phone #: (208) 420-8189
ray@csnradio.com

#2
Name: Jeremy Estabrooks
Phone #: 209.481.1672
Jeremy@csnradio.com

General Manager/CEO
Name: Mike Stocklin Phone #: 208.734.6633
United States of America

FEDERAL COMMUNICATIONS COMMISSION

FM BROADCAST TRANSLATOR/BOOSTER
STATION LICENSE

Authorizing Official:

Penelope A. Dade
Supervisory Analyst
Audio Division
Media Bureau

Grant Date: November 03, 2014
This license expires 3:00 a.m.
local time, February 01, 2022.

Official Mailing Address:
CALVARY CHAPEL OF TWIN FALLS, INC.
P.O. BOX 391
TWIN FALLS ID 83303

Facility Id: 92815
Call Sign: K221DV
License File Number: BLPT-20141008AAW

This license covers permit no.: RPFT-20140708AAE

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee’s representation that the statements contained in licensee’s application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.
Name of Licensee: CALVARY CHAPEL OF TWIN FALLS, INC.

Principal community to be served: WA-KAMILCHE

Primary Station: KAWZ (FM), Channel 210, TWIN FALLS, ID
Via: K204KT

Frequency (MHz): 92.1

Channel: 221

Hours of Operation: Unlimited

Antenna Coordinates: North Latitude: 47° 08' 20" sec
                  West Longitude: 123° 08' 20" sec

Transmitter: Type Accepted. See Sections 73.1660, 74.1250 of the Commission's Rules.

Transmitter output power: 0.005 kW

Antenna type: (directional or non-directional): Non-Directional
Description: MEK TP25K

Major lobe directions (degrees true): Not Applicable

<table>
<thead>
<tr>
<th>Horizontally Polarized Antenna</th>
<th>Vertically Polarized Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective radiated power in the Horizontal Plane (kw): 0.019</td>
<td>0.019</td>
</tr>
<tr>
<td>Height of radiation center above ground (Meters): 17</td>
<td>17</td>
</tr>
<tr>
<td>Height of radiation center above mean sea level (Meters): 387</td>
<td>387</td>
</tr>
</tbody>
</table>

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 20 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

FCC Form 351B October 21, 1985
Special operating conditions or restrictions:

1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

*** END OF AUTHORIZATION ***
CSN TX SOUTH CORNER

CSN TX K221DV 92.1
(Transmit Antenna)
CSN RX NORTH WEST FACE

CSN RCV K221DV

(Receive Antenna)
iFiberOne
KMAS
Contact Information:

iFiberOne News Radio
(KMAS)

159 Basin St SW
Ephrata, WA 98823

509.754.2600 ext. 4001
(Bobby McCurdy)
bmccurdy@ifiber.tv
United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST TRANSLATOR/BOOSTER STATION
CONSTRUCTION PERMIT

Official Mailing Address:
IFIBER COMMUNICATIONS CORPORATION
PO BOX 490
SPHRATA WA 99823

Facility Id: 154893
Call Sign: K297CZ
Permit File Number: BPFT-20171004ABL

Authorizing Official:
James D. Bradshaw
Deputy Chief
Audio Division
Media Bureau

Grant Date: October 18, 2017
This permit expires 3:00 a.m., local time, 36 months after the grant date specified above.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 99-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Name of Permittee: IFIBER COMMUNICATIONS CORPORATION
Principal community to be served: WA-SHELTIN
Primary Station: KMAS (AM), Frequency 1030 kHz, SHELTIN, WA
Via: Other
Frequency (MHz): 103.3
Channel: 277
Hours of Operation: Unlimited

FCC Form 351A October 21, 1985
Call Sign: E277CZ

Permit No.: BPTT-20171004AHL

Antenna Coordinates: North Latitude: 47 deg 08 min 20 sec
West Longitude: 123 deg 08 min 23 sec

Transmitter: Type Accepted. See Sections 73.1660, 73.1250 of the Commission

Antenna type: (directional or non-directional): Directional

Major lobe directions (degree true):
180

Effective radiated power in the Horizontal Plane (kw): 0.25

Height of radiation center above ground (Meters): 20

Height of radiation center above mean sea level (Meters): 390

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 31 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

Special operating conditions or restrictions:

1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

2. Prior to commencing program test operations, FM Translator or FM Booster permittee must have on file at the Commission, FCC Form 350, Application for an FM Translator or FM Booster Station License, pursuant to 47 C.F.R. Section 74.14.

*** END OF AUTHORIZATION ***

FCC Form 351A October 21, 1985
Please complete one data sheet for each radio unit.

### Licensee Information:

<table>
<thead>
<tr>
<th><strong>K277CZ (KMAS)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Licensee Name:</strong></td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
</tr>
<tr>
<td><strong>Address:</strong></td>
</tr>
<tr>
<td><strong>City, State, Zip:</strong></td>
</tr>
</tbody>
</table>

### Chief Engineer or Service Provider Info:

<table>
<thead>
<tr>
<th><strong>Name:</strong></th>
<th>Jack Ondrasky</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phone:</strong></td>
<td>(509) 947-7398</td>
</tr>
</tbody>
</table>

### Premises Information:

<table>
<thead>
<tr>
<th><strong>Site Name:</strong></th>
<th>Kamicho Tower</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PUD 3 Contract:</strong></td>
<td>Tower</td>
</tr>
<tr>
<td><strong>Location at site:</strong></td>
<td>(Site or building name):</td>
</tr>
<tr>
<td><strong>Latitude and Longitude:</strong> (at center of tower)</td>
<td>Long:</td>
</tr>
<tr>
<td></td>
<td>Lat:</td>
</tr>
<tr>
<td><strong>Elevation of site:</strong> (at center of tower)</td>
<td>feet:</td>
</tr>
</tbody>
</table>

### Equipment

<table>
<thead>
<tr>
<th><strong>FCC License Number:</strong></th>
<th>BLF7 2017/004 A04 CP 2001 T0:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date FCC License Issued:</strong></td>
<td>10-19-2015</td>
</tr>
<tr>
<td><strong>License Expiration Date:</strong></td>
<td>2-1-2022</td>
</tr>
<tr>
<td><strong>Equipment Manufacturer:</strong></td>
<td>BW Broadcast</td>
</tr>
<tr>
<td><strong>Model Number:</strong></td>
<td>TX-VX Series</td>
</tr>
<tr>
<td><strong>Class of Service (FCC Symbol):</strong></td>
<td>FX</td>
</tr>
<tr>
<td><strong>Type of Emission (FCC Symbol):</strong></td>
<td>F3E4</td>
</tr>
<tr>
<td><strong>AC power drain during transmission (watts):</strong></td>
<td>25000 (ERP)</td>
</tr>
<tr>
<td><strong>CTCSS control tone (Hz):</strong></td>
<td>FM Broadcast Translator</td>
</tr>
<tr>
<td><strong>Type of unit (i.e., microwave, cellular):</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Is power on continuously?:</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>If amateur radio operator, is this unit:</strong></td>
<td>Voice</td>
</tr>
</tbody>
</table>
5. **Units (Transmitter only or Transmitter/Receiver):**

Complete for all licenses:

<table>
<thead>
<tr>
<th>Transmit Frequency (MHz)</th>
<th>Receive Frequency (MHz)</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. **Dish Antennas**

<table>
<thead>
<tr>
<th>Diameter (feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
<th>Beam Path Width</th>
<th>Beam Path Length</th>
<th>Azimuth</th>
<th>Angle Tilt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. **Pole (Stick) (or other type) Antennas**

<table>
<thead>
<tr>
<th>Length (feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact (2 x 4)</td>
<td>W Log</td>
<td>APx 50°Ft-Below</td>
</tr>
<tr>
<td>Log Periodic W Log</td>
<td></td>
<td>X 22° DV Antenna</td>
</tr>
</tbody>
</table>

8. **Destination of Signal Path:** 180° & 340°

9. **Additional Information:**

<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEO/SCSA CL/I FM/VRM</td>
<td>THIS MEANS EXISTING SERVICE ON THE TOWER. EXISTING ANTEENA IS NOT TO BE REMOVED</td>
</tr>
</tbody>
</table>

IFIBER ONE RADIO—KMAS
Olympia
Broadcasters
KRXY
Contact Information:

Olympia Broadcasters, Inc.
(KRXY)

2124 Pacific Ave. SE
Olympia, WA 98506
360.736.1355

360.561.5977
(Mike Marohn)
Michael.F.Marohn@morganstanley.com

360.529.2294
(Sandra Woodruff)
sw@drsandi.com
OLYMPIA BROADCASTERS—KRXY

Federal Communications Commission
Wireless Telecommunications Bureau
RADIO STATION AUTHORIZATION

LICENSEE: OLYMPIA BROADCASTERS, INC.

OLYMPIA BROADCASTERS, INC.
2124 PACIFIC AVENUE, S.E.
OLYMPIA, WA 98506

FCC Registration Number (FRN): 0020521274

Grant Date 05-12-2014
Effective Date 05-12-2014
Expiration Date 07-01-2022
Print Date

LOCATION

Fixed Location Address or Area of Operation:
2124 Pacific Avenue, SE.
City: Olympia
County: THURSTON
State: WA

Loc No.  Location Name        Latitude       Longitude      Elevation
001      Olympia Studio        47°02’47.3"N  122°52’14.4"W  60.9
002      KRXY Tower           47°08’19.5"N  123°00’37.5"W  370.3

FREQUENCY PATHS

Frequency Tel EIRP Constr Date Path Seg Emitt Ant Hi Gain Beam POL AZIM Ref Loc
(MHz) (%) (dBm) Date No Emitt (m) (deg) Gain (dB) (deg) H (deg) Ref Loc Call
107.12 8        0.0087500355X1 100 11-02-2013 001 1 003 9.3 22.1 12.5 W 296.7 002

Waiver/Conditions:
The Facility ID of the Associated Broadcast Parent Station for this license is S2537.

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 or in any other manner than authorized herein. Neither this 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 to terms to the right of use or control conferred by §706 of the Communications Act of 1914, as amended. See 47 U.S.C. §606.
OLYMPIA BROADCASTERS—KRXY

Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: OLYMPIA BROADCASTERS, INC.
OLYMPIA BROADCASTERS, INC.
2124 PACIFIC AVENUE, SE
OLYMPIA, WA 98506

FCC Registration Number (FRN): 002021234

<table>
<thead>
<tr>
<th>Call Sign</th>
<th>File Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPFA364</td>
<td>0007245225</td>
</tr>
</tbody>
</table>

Radio Service
RP - Broadcast Auxiliary Remote Pickup

Regulatory Status
FCC/CC

Frequency Coordination Number

<table>
<thead>
<tr>
<th>Grant Date</th>
<th>Effective Date</th>
<th>Expiration Date</th>
<th>Print Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>09-20-1999</td>
<td>04-22-2016</td>
<td>02-01-2022</td>
<td>04-28-2016</td>
</tr>
</tbody>
</table>

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation
Loc. 1 Area of operation
Operating within a 40.0 km radius around 47.02-30.3 N, 122.54-02.5 W,
MAJON county, WA

Antennas

<table>
<thead>
<tr>
<th>Loc</th>
<th>Ant No.</th>
<th>Frequencies (MHz)</th>
<th>Sta.</th>
<th>No. of Units</th>
<th>No. of Pagers</th>
<th>Emission Designator</th>
<th>Output ERP (watts)</th>
<th>Ant. Hr./Tp</th>
<th>Ant. AAT</th>
<th>Construct Deadline Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>88.459 / 88.980</td>
<td>MO</td>
<td>5</td>
<td></td>
<td>5000 để</td>
<td>35,000</td>
<td>292.000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Control Points
Control Pt. No. 1
Address:
City:  County: State: Telephone Number: (941)329-6000

Associated Call Signs

Conditions:
Pursuant to §300(a) 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.

FCC 608-LM
August 2007

Page 1 of 2
OLYMPIA BROADCASTERS—KRXY
**Reference Copy**

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

**Federal Communications Commission**

**Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

**Licensee:** OLYMPIA BROADCASTERS, INC.

OLYMPIA BROADCASTERS, INC
2124 PACIFIC AVENUE, S.E
OLYMPIA, WA 98506

**FCC Registration Number (FRN):** 0020321274

<table>
<thead>
<tr>
<th>Grant Date</th>
<th>Effective Date</th>
<th>Expiration Date</th>
<th>Print Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-31-2000</td>
<td>04-28-2016</td>
<td>02-01-2022</td>
<td>04-28-2016</td>
</tr>
</tbody>
</table>

**LOCATION**

**Fixed Location Address or Area of Operation:**
2124 Pacific Avenue, SE
City: Olympia  County: THURSTON  State: WA

<table>
<thead>
<tr>
<th>Loc No.</th>
<th>Location Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Olympia Studio</td>
<td>47°02'47.3&quot; N</td>
<td>122°52'16.4&quot; W</td>
<td>60.9</td>
</tr>
<tr>
<td>002</td>
<td>KRXY Tower</td>
<td>47°08'19.5&quot; N</td>
<td>123°08'37.5&quot; W</td>
<td>370.3</td>
</tr>
</tbody>
</table>

**FREQUENCY PATHS**

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Tilt (%)</th>
<th>Elevation (dB)</th>
<th>Latitude (deg)</th>
<th>Longitude (deg)</th>
<th>Path No</th>
<th>Elevation Gain (dBi)</th>
<th>Location Leaf</th>
<th>Beam Width (deg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>947.0</td>
<td>0</td>
<td>51</td>
<td>100</td>
<td></td>
<td>001</td>
<td>9.1</td>
<td>22.1</td>
<td>112.5</td>
</tr>
</tbody>
</table>

**Waivers/Conditions:**

The Facility ID of the Associated Broadcast Parent Station for this license is 82527.

**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 terms thereof 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. § 706.

**FCC 601-M**

August 2007
1. **Licensee Information:**
   - **Licensee Name:** Olympia Broadcasters, Inc.
   - **Address:** 2124 Pacific Ave SE
   - **City, State, Zip:** Olympia, WA 98506

2. **Chief Engineer or Service Provider Info:**
   - **Name:** Sandra Woodruff
   - **Phone:** (360) 738-1335
   - **Emergency Phone:** (503) 645-8527

3. **Premises Information:**
   - **Site Name:** Kamilche Tower
   - **Location at site:** Kamilche Co-location facility for radios
   - **Latitude and Longitude:** Long 123° 08' 27.65" W,
     Lat 47° 08' 19.47" N
   - **Elevation of site:** 1,215 feet

4. **Equipment:**
   - **FCC License Number:** K271CG
   - **Date FCC License Issued:** November 17, 2014
   - **License Expiration Date:** February 1, 2022
   - **Equipment Manufacturer:**
   - **Model Number:**
   - **Class of Service (FCC Symbol):** FM
   - **Type of Emission (FCC Symbol):** F3E
   - **AC power drain during transmission (watts):** 235
   - **Transmit output power (watts):** 180
   - **CTCSS control tone (Hz):**
   - **Type of unit (i.e., microwave, cellular):** FM Broadcast
   - **Is power on continuously?** Yes
   - **If amateur radio operator, is this unit:** Voice Packet
## EXHIBIT A

### TECHNICAL DATA SHEET

*Kamilche Tower*

*Please complete one data sheet for each radio unit*

<table>
<thead>
<tr>
<th>1. Licensee Information:</th>
<th>2. Chief Engineer or Service Provider Info:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>Name:</td>
</tr>
<tr>
<td><em>Olympia Broadcasters</em></td>
<td>Mike Martin</td>
</tr>
<tr>
<td>Address:</td>
<td>Address:</td>
</tr>
<tr>
<td>2127 Pacific Ave SE</td>
<td>SAME</td>
</tr>
<tr>
<td>Olympia, WA 98506</td>
<td></td>
</tr>
<tr>
<td>Phone:</td>
<td>Phone:</td>
</tr>
<tr>
<td>360-236-1818</td>
<td>[Redacted]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Premises Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name:</td>
</tr>
<tr>
<td>PUD 3 Contract:</td>
</tr>
<tr>
<td>Location at site:</td>
</tr>
<tr>
<td>Latitude and Longitude:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Elevation of site:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. FCC License Number:</td>
</tr>
<tr>
<td>B. Date FCC License Issued:</td>
</tr>
<tr>
<td>C. License Expiration Date:</td>
</tr>
<tr>
<td>D. Equipment Manufacturer:</td>
</tr>
<tr>
<td>E. Model Number:</td>
</tr>
<tr>
<td>F. Class of Service (FCC Symbol):</td>
</tr>
<tr>
<td>G. Type of Emission (FCC Symbol):</td>
</tr>
<tr>
<td>H. AC power drain during transmission (Watts):</td>
</tr>
<tr>
<td>I. Transmit output power (watts):</td>
</tr>
<tr>
<td>J. CTCSS control tone (Hz):</td>
</tr>
<tr>
<td>K. Type of unit (i.e., microwave, cell):</td>
</tr>
</tbody>
</table>
EXHIBIT A
TECHNICAL DATA SHEET
Kamilche Tower

5. Units (Transmitter only or Transmitter/Receiver):

<table>
<thead>
<tr>
<th>Transmit Frequency (MHz)</th>
<th>Receive Frequency (MHz)</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>970</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

6. Dish Antennas

<table>
<thead>
<tr>
<th>Diameter (Feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
<th>Beam Path Width</th>
<th>Beam Path Length</th>
<th>Azimuth</th>
<th>Angle Tilt</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>East</td>
<td>15</td>
<td>2</td>
<td>-117°</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. Pole (Stick or other type) Antennas

<table>
<thead>
<tr>
<th>Length (Feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Northeast</td>
<td></td>
</tr>
</tbody>
</table>

8. Destination of Signal Path

Olympia

9. Additional Information:
KRXY NORTH EAST FACE

KRXY WPOM224
KRXY SOUTH EAST FACE

KRXY RVC 900 / WPOM224
KRXY NORTH EAST FACE

KRXY HD/AUX
Contact Information:

Mason County Emergency Communications
(MaceCom)

P.O. Box 209
Shelton, WA 98584

360.426.4441
Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

LICENSEE: MASON COUNTY EMERGENCY COMMUNICATIONS (MACECOM)

ATTN: TIM MCKERN
MASON COUNTY EMERGENCY COMMUNICATIONS (MACECOM)
525 WEST OSTA STREET
SHELTON, WA 98584

Call Sign: W0EX2
File Number: W0EX2

Radio Service: PW - Public Safety Pool, Conventional

Regulatory Status: "FMRS"

Frequency Coordination Number:

FCC Registration Number (FRN): 0001157

Grant Date: 10-01-2012
Effective Date: 10-01-2012
Expiration Date: 10-01-2022
Print Date:

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation
Loc. 1: KAMICHKE PEAK SUMMIT ROAD TERMINUS
City: MOCLEARY
County: MASON
State: WA
Lat (NAD83): 47-08-19.6 N
Long (NAD83): 123-08-27.2 W
ASR No.: Ground Level: 363.0

Loc. 2: Area of operation
Countywide: MASON, WA
Location 2 Special Condition
Area of operation is restricted to south of Line A and west of Line C

Antennas:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0001151.137580000</td>
<td>PB</td>
<td>0</td>
<td>11K2F3E</td>
<td>100,000</td>
<td>24.234</td>
<td>268.0</td>
<td>10-01-2013</td>
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<tr>
<td>2</td>
<td>0001151.137580000</td>
<td>MQ</td>
<td>200</td>
<td>11K2F3E</td>
<td>100,000</td>
<td>150,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conditions:
Pursuant to §309(b) of the Communications Act of 1934, as amended, 47 U.S.C. §309(b), this license is subject to the following conditions. This license shall not be transferred to the licensee or any other party to the same extent as the holder of the license beyond the term of the license and may not be renewed. Neither the license nor the right granted herein shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(a). This license is subject in terms with the right of use or control conferred by § 706 of the Communications Act of 1934, as amended. See 47 U.S.C. § 606.
Federal Communications Commission
Public Safety and Homeland Security Bureau

LICENSEE: JILL EVANDER, MAECOM
SHELTON, CITY OF
PO BOX 209
SHELTON, WA 98584-0209

FCC Registration Number (FRN): 0011071941

ATTN: JILL EVANDER, MAECOM

RADIO STATION AUTHORIZATION

Call Sign
KSNF591

File Number

Radio Service
FW - Public Safety Radio, Conventional

Regulatory Status
FMSE

Frequency Coordination Number

Grant Date
11/21/2005

Effective Date
01/31/2015

Expiration Date
12/04/2015

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Address: 1800 W SIMPSON 2520 ROAD
City: SHELTON County: MASON State: WA
Lat (NAD83): 47-08-18.3 N Long (NAD83): 122-06-25.5 W ASR No.: Ground Elev: 550

Loc. 2 Address: 316 MUNCASTER DRIVE
City: SHELTON County: MASON State: WA
Lat (NAD83): 47-13-51.3 N Long (NAD83): 122-06-02.5 W ASR No.: Ground Elev: 85

Loc. 3 Area of operation:
Operating within a 25 km radius around fixed location 1

Loc. 4 Address: 1806 W 2925 Road
City: SHELTON County: MASON State: WA

Loc. 5 Area of operation:
Operating within a 25 km radius around 46-57-18 2 N, 122-59-36 3 W, OLUMIA, THURSTON county, WA

Loc. 6 Address: 525 W COTA STREET
City: SHELTON County: MASON State: WA
Lat (NAD83): 47-12-43.0 N Long (NAD83): 122-06-20.0 W ASR No.: Ground Elev: 73

Loc. 7 Area of operation:
Operating within a 40 km radius around fixed location 1

Conditions:
Pursuant to 300(h) of the Communications Act of 1934, as amended, 47 U.S.C. 300(h), this license is subject to the following conditions: The license shall not be used by the license nor any other person in the possession of the license holder in the manner designated in the license beyond the terms 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 to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. 606.
Licensee Name: SHELTON, CITY OF

Call Sign: KNNF591

Fixed Location Address or Mobile Area of Operation
Loc. 8 Area of operation
Operating within a 25.0 km radius around fixed location 6

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<th>No. Pagers</th>
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<th>Output Power (watts)</th>
<th>ERP (watts)</th>
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Page 2 of 4

FCC 601-ULSH81
August 2007
### MASON COUNTY EMERGENCY COMMUNICATIONS (MACECOM)

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#### Control Points

- **Control Pt. No. 1**
- **Address:** 525 W Cota Street, 98584-2239
- **City:** SHELTON  **County:** MASON  **State:** WA  **Telephone Number:** (360)432-5140

#### Associated Call Signs

---

_FCC 601-ULS881  
August 2007_
Waivers/Conditions:
Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.20(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.
Federal Communications Commission

PUBLIC SAFETY AND HOMELAND SECURITY BUREAU

LICENSEE: MASON COUNTY FIRE DISTRICT #1
ATTN: BEAU BAKKEM
2970 SOUTH ARCADIA ROAD
SHELTON, WA 98586

FCC Registration Number (FRN): 0015854759

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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation:
- Loc. 1 Address: KAMILCHE PEAK
  City: SHELTON  County: MASON  State: WA
  Lat (NAD83): 47°08'19"N  Long (NAD83): 123°05'20"W  ASR No.: Ground Elevation: 3480

- Loc. 2 Area of Operation:
  Operating within a 32.0 km radius around fixed location 1.

- Loc. 3 Area of Operation:
  Below Line A in Mason County WA.

Antennas:

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<th>Frequencies</th>
<th>Sta. Cls.</th>
<th>No. Units</th>
<th>No. Pagers</th>
<th>Emission Designator</th>
<th>Output Power (watts)</th>
<th>ERP (watts)</th>
<th>Ant. RL/Tp</th>
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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: The licensee shall not in any way or manner use the frequencies designated in the license for any purpose other than the purpose for which the license was granted. The licensees are not authorized to operate any radiotelephone equipment in violation of the Communications Act of 1934, as amended. See 47 U.S.C. §309(h). This license is subject to the right of use of the radiotelephone service for emergency use in the public interest, pursuant to §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

FCC 601-ULSH31
August 2007
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No Harmful Interferences Anticipated based on reduction of ERP from 15 to 5 watts. |
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Control Points
Control Pt. No. 1
Address: 2970 SOUTH ARCADIA ROAD
City: SHELTON County: MASON State: WA Telephone Number: (360)426-7222

Associated Call Signs
WQNN916, WPZJ39

Waivers/Conditions:
NONE
Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

Call Sign
WINSS29

File Number

Radio Service
FW - Public Safety Pool, Conventional

Regulatory Status
PMRS

Frequency Coordination Number

Grant Date
05-16-2012

Effective Date
10-25-2014

Expiration Date
06-25-2022

Print Date

STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1
Address: NE 460 OLD BELFAIR
City: BELFAIR
County: MASON
State: WA
Lat (NAD83): 47-22-09.8 N
Long (NAD83): 122-45-54.5 W
ASR No.: N/A
Ground Elev: 5.0

Loc. 2
Address: CHRISTMAS TREE LANE
City: TWAIN OH FALLS
County: MASON
State: WA
Lat (NAD83): 47-22-35.9 N
Long (NAD83): 122-56-25.5 W
ASR No.: N/A
Ground Elev: 280

Loc. 3
Address: 110 UNION HEIGHTS PL S
City: UNION
County: MASON
State: WA
Lat (NAD83): 47-30-52.3 N
Long (NAD83): 123-06-06.8 W
ASR No.: N/A
Ground Elev: 1460

Loc. 4
Area of operation
Operating within a 32.0 km radius around fixed location 1

Loc. 5
Area of operation
Land Mobile Control Station meeting the 6.1 Meter Rule

Loc. 6
Area of operation
Operating within a 32.0 km radius around fixed location 2

Loc. 7
Area of operation
Operating within a 40.0 km radius around fixed location 8

Loc. 8
Address: COCKLEBE LANE
City: MASON
County: MASON
State: WA
Lat (NAD83): 47-27-37.7 N
Long (NAD83): 122-40-36.5 W
ASR No.: Ground Elev: 1060

Loc. 9
Area of operation
Operating within a 40.0 km radius around fixed location 8

Conditions:

Pursuant to §309(b) of the Communications Act of 1934, as amended, 47 U.S.C. §309(b), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor shall the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized hereon. 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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**Frequency 000153.740000000**

Special Condition

**Frequency 000153.740000000**

Special Condition

Authorized on a secondary basis.

**Frequency 000153.740000000**

Special Condition

Authorized on a secondary basis.

**Frequency 000153.740000000**

Special Condition

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Special Condition

Authorized on a secondary basis.

**Frequency 000153.740000000**

Special Condition

Authorized on a secondary basis.

**Frequency 000153.740000000**

Special Condition

Authorized on a secondary basis.
MASSON COUNTY EMERGENCY COMMUNICATIONS (MACECOM)

Licensee Name: MASON COUNTY FIRE DISTRICT 2

Call Sign: WN81529

Control Points
Control Pt. No. 1
Address: 525 WEST COTA ST.

City: SHELTON  County: MASON  State: WA  Telephone Number: (360)275-6711

Associated Call Signs:
<NA>

Waivers/Conditions:
The maximum effective radiated power (ERP) allowed for the control station authorized in this system is 5 watts.

Beginning January 1, 2013, this station must operate on channels with a bandwidth of 12.5 kHz or less, or with equivalent efficiency, regardless of the emission bandwidths set forth on this license. See Section 90.209(b)(5) of the Commission's Rules. Note, however, that the narrowbanding requirement does not apply to specific channels designated in Rule 90.20 or 90.35 for paging only.
```
Federal Communications Commission  
Public Safety and Homeland Security Bureau  

RADIO STATION AUTHORIZATION  

Call Sign  
EMFF591  

File Number  
0006963079  

Radio Service  
FW - Public Safety Pool, Conventional  

Regulatory Status  
FMRS  

Frequency Coordination Number  

FCC Registration Number (FRN):  
0011071041  

Grant Date  
10-14-2015  

Effective Date  
10-14-2015  

Expiration Date  
12-04-2025  

Print Date  
10-15-2015  

STATION TECHNICAL SPECIFICATIONS  

Fixed Location Address or Mobile Area of Operation  
Loc. 1  
Address: 1808 W SIMPSON 2520 ROAD  
City: SHELTON  
County: MASON  
State: WA  
Lat (NAD83) 47-08-18.3 N Long (NAD83): 123-08-30.5 W  
ASR No.: Ground Elevation: 956.0  

Loc. 2  
Address: 316 MUNCASTER DRIVE  
City: SHELTON  
County: MASON  
State: WA  
Lat (NAD83) 47-13-51.3 N Long (NAD83): 123-06-02.5 W  
ASR No.: Ground Elevation: 85.0  

Loc. 3  
Area of operation  
Operating within a 25.0 km radius around fixed location 3  

Loc. 4  
Address: 1806 W 2925 Road  
City: SHELTON  
County: MASON  
State: WA  
Lat (NAD83) 47-08-19.0 N Long (NAD83): 123-08-28.0 W  
ASR No.: Ground Elevation: 956.0  

Loc. 5  
Area of operation  
Operating within a 25.0 km radius around 46-57-18.2 M, 122-39-36.3 W  
OLYMPIA, THURSTON county, WA  

Loc. 6  
Address: 525 W COTA STREET  
City: SHELTON  
County: MASON  
State: WA  
Lat (NAD83) 47-12-43.0 N Long (NAD83): 123-06-20.0 W  
ASR No.: Ground Elevation: 73  

Loc. 7  
Area of operation  
Operating within a 40.0 km radius around fixed location 1  

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 to 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.  

Page 1 of 3  

FCC 601-ULSHS1  
August 2007  
```
Licensee Name: SHELTEN, CITY OF

Call Sign: KNF591

File Number: 0006638879

Print Date: 10-15-2015

Fixed Location Address or Mobile Area of Operation

Loc. Area of operation
8 Operating within a 25.0 km radius around fixed location 6

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Page 2 of 3

FCC 601-ULS881
August 2009
## MASON COUNTY EMERGENCY COMMUNICATIONS (MACECOM)

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<th>No. of Units</th>
<th>Emission Designator</th>
<th>ERP (watts)</th>
<th>Ant. Ht./Tp. meters</th>
<th>Construct Deadline Date</th>
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### Control Points
- **Control Pt. No. 1**
  - **Address:** 525 W Cota Street, 98584-2239
  - **City:** SHELTON
  - **County:** MASON
  - **State:** WA
  - **Telephone Number:** (360)432-5140

### Associated Call Signs
- **<NA>**

### Waivers/Conditions
- **NONE**

---

Page 3 of 3

FCC 601-ULSIBS1
August 2007
**Federal Communications Commission**

**Public Safety and Homeland Security Bureau**

**RADIO STATION AUTHORIZATION**

**LICENSEE:** SQUAQUIN ISLAND-INDIAN TRIBE

**ATTN:** TRACY BOOGART

SQUAQUIN ISLAND-INDIAN TRIBE

19 SE SQUAQUIN LAKE

SHELTON, CA 98584

**FCC Registration Number (FRN):** 0000329327

---

### Fixed Location Address or Mobile Area of Operation

**Loc. 1**

**Address:** KAMICHIE PEAK

**City:** SHELTON

**County:** MASON

**State:** WA

**Lat (NAD83):** 47-08-19.0 N

**Long (NAD83):** 123-09-27.0 W

**ASR No.:** NUA

**Ground Elev.:** 3480

**Loc. 2**

**Area of operation:** Operating within a 32.0 km radius around fixed location 1

---

### STATION TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Antennas</th>
<th>Loc No.</th>
<th>Frequencies (MHz)</th>
<th>Sta. Cls.</th>
<th>No. of Units</th>
<th>No. of Pages</th>
<th>Emission Designator</th>
<th>Output Power (watts)</th>
<th>ERP (watts)</th>
<th>Ant. Ht./Tp meters</th>
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**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: The license shall not be transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. §309(h). This license is subject 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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Control Points:
Control Pt. No. 1
Address: 2ND & FRANKLIN
City: SHELTON  County: MASON  State: WA  Telephone Number: (360)426-9771

Associated Call Signs:
<NA>

Waivers/Conditions:
NONE
MACECOM NORTH WEST FACE

Macecom WQUH381
MACECOM NORTH EAST FACE

Macecom MCFD4 WQNN916
MACECOM NORTH EAST FACE

Macecom MCDF2 WNNH529
MACECOM SOUTH EAST FACE

Macecom Sheriff UHF KNFF591
MACECOM SOUTH EAST FACE

Macecom VTAC KNFF591 153.740
MACECOM NORTH WEST FACE

Macecom LERN KNFF591
Mason County
Public Works
Contact Information:

Mason County Public Works

100 Public Works Dr
Shelton, WA 98584

360.427.9670 / 360.490.1819
(Cyndi Ticknor)
cyndit@co.mason.wa.us
EXHIBIT A  
TECHNICAL DATA SHEET  
Kamilche Tower

Please complete one data sheet for each radio unit

<table>
<thead>
<tr>
<th>1. Licensee Information</th>
<th>2. Chief Engineer or Service Provider Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>Licensee Name: Mason County Public Works</td>
<td>Name: Dan Casey</td>
</tr>
<tr>
<td>Address: 410 W. 5th St.</td>
<td>City, State, Zip: Shelton, WA 98584</td>
</tr>
<tr>
<td>Phone: (360) 492-7670</td>
<td>Address: 470 Carpenter Rd. S.E. Suite 102A, Olympia, WA 98503</td>
</tr>
<tr>
<td>City, State, Zip: Shelton, WA 98584</td>
<td>Emergency Phone: (360) 491-7800</td>
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3. Premises Information:

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<tr>
<th>Site Name:</th>
<th>Kamilche Tower</th>
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<tr>
<td>PUD 3 Contract:</td>
<td>Kamilche Co-location facility for radios</td>
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<tr>
<td>Location at site:</td>
<td>Long 123° 08' 27.65&quot; W</td>
</tr>
<tr>
<td>(Site or building name):</td>
<td>Lat 47° 08' 19.47&quot; N</td>
</tr>
<tr>
<td>Latitude and Longitude: (at center of tower):</td>
<td>NAD83</td>
</tr>
<tr>
<td>Elevation of site: (at center of tower):</td>
<td>1,215 feet</td>
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4. Equipment

| A. FCC License Number: | KN54 702 |
| B. Date FCC License Issued: | 3/20/02 |
| C. License Expiration Date: | 4/30/12 |
| D. Equipment Manufacturer: | MOTOROLA |
| E. Model Number: | MTR 2000 |
| F. Class of Service (FCC Symbol): | F82 |
| G. Type of Emission (FCC Symbol): | 20KOFSE |
| H. AC power drain during transmission (watts): | 60-80 / 110 V.A.C. |
| I. Transmit output power (watts): | 125 |
| J. CTCSS control tone (Hz): | 110, 910 |
| K. Type of unit (i.e., microwave, cellular): | Analog FM/VOICE |
| L. Is power on continuously?: | No |
| M. If amateur radio operator, is this unit: | Voice, Packet |
5. **Units (Transmitter only or Transmitter/Receiver):**
   
   Complete for all licenses:

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<th>Transmit Frequency (MHz)</th>
<th>Receive Frequency (MHz)</th>
<th>Channel</th>
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6. **Dish Antennas**

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<th>Diameter (feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
<th>Beam Path Width</th>
<th>Beam Path Length</th>
<th>Azimuth</th>
<th>Angle Tilt</th>
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7. **Pole (Stick) (or other type) Antennas**

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<th>Length (feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
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<td>19 ft O.A.</td>
<td>Top - EAST corner</td>
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8. **Destination of Signal Path:**

   OMNI DIRECTIONAL / 30 NM RADIUS

9. **Additional Information:**

   MOTOROLA BETA 2000 VHF RADIOTAC 110 CL
Federal Communications Commission  
Public Safety and Homeland Security Bureau  

RADIO STATION AUTHORIZATION

LICENSEE: MASON COUNTY PUBLIC WORKS

ATTN: DAVID LOEB
MASON COUNTY PUBLIC WORKS
100 WEST PUBLIC WORKS DRIVE
SHELTON, WA 98258-5016

Call Sign: KNCY702
File Number: 0007295501

Radio Service
Radio Service: PW - Public Safety Radio, Conventional

FCC Registration Number (FRN): 000475415

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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation
Loc. 1 Address: SUMMIT ROAD TERMINUS  
City: MOILEEEY  
County: MASON  
State: WA  
Lat (NAD83): 47-06-40.0 N  
Long (NAD83): 123-06-54.0 W  
ASR No.: Ground Elev: 344.0

Loc. 2 Area of operation  
Land Mobile Control Station meeting the 6.1 meter Rule

Loc. 3 Area of operation  
Operating within a 72.0 km radius around fixed location 1

Loc. 4 Address: SUMMIT OF LOOKOUT ACCESS ROAD  
City: CRESSCEN  
County: KITTAB  
State: WA  
Lat (NAD83): 47-32-55.0 N  
Long (NAD83): 122-47-11.0 W  
ASR No.: Ground Elev: 517.0

Loc. 5 Area of operation  
Operating within a 40.0 km radius around fixed location 4

Loc. 6 Address: 10 W PUBLIC WORKS DRIVE  
City: SHELTON  
County: MASON  
State: WA  
Lat (NAD83): 47-15-10.0 N  
Long (NAD83): 123-08-56.0 W  
ASR No.: Ground Elev: 93.0

Loc. 7 Area of operation  
Operating within a 40.0 km radius around fixed location 6

Conditions:
Pursuant to §309(b) of the Communications Act of 1934, as amended, 47 U.S.C. (§309(b)), this license is subject to the following conditions. This license shall not vest in the license any right to operate the station nor any right nor in the use of the frequency designated in the license beyond the term thereof or 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 to 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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</table>
County KNC4702
Contact Information:

NW Indy Radio

611 NE 18th Ave
Hillsboro, OR 97124

360.529.2294
(Sandra Woodruff)
sw@drsand.com
nwindyradio@gmail.com
**EXHIBIT A**
**TECHNICAL DATA SHEET**
Kamilche Tower

**Please complete one data sheet for each radio unit**

<table>
<thead>
<tr>
<th>1. Licensee Information:</th>
<th>2. Chief Engineer or Service Provider Info:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: NW INDIY RADIO</td>
<td>Name: SANDRA WOODRUFF CE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address: 611 NE 18TH AVENUE HILLSBoro, OR 97124</th>
<th>Address: 611 NE 18TH AVE, HILLSBoro 97124</th>
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</thead>
<tbody>
<tr>
<td>Phone: 360-529-2294</td>
<td>Phone: 360-529-2294</td>
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**3. Premises Information:**

<table>
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<tr>
<th>Site Name:</th>
<th>Kamilche Tower</th>
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<tr>
<td>PUD 3 Contract:</td>
<td>2018-3</td>
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<tr>
<td>Location at site:</td>
<td>Kamilche Co-location facility for radios</td>
</tr>
</tbody>
</table>
| Latitude and Longitude: (at center of tower) | Long 123° 08' 27.65" W  
Lat 47° 08' 19.47' N  |
| Elevation of site: (at center of tower) | 1,215 feet |

**4. Equipment**

<table>
<thead>
<tr>
<th>A. FCC License Number:</th>
<th>K270CJ</th>
</tr>
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<tbody>
<tr>
<td>B. Date FCC License Issued:</td>
<td>10/19/2015</td>
</tr>
<tr>
<td>C. License Expiration Date:</td>
<td>2/11/2022</td>
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<tr>
<td>D. Equipment Manufacturer:</td>
<td>Broadcast Warehouse</td>
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<tr>
<td>E. Model Number:</td>
<td>FM 300</td>
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<td>F. Class of Service (FCC Symbol):</td>
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<td>G. Type of Emission (FCC Symbol):</td>
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<tr>
<td>H. AC power drain during transmission (watts):</td>
<td>260 420 WATTS</td>
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<tr>
<td>I. Transmit output power (watts):</td>
<td>280 WATTS</td>
</tr>
<tr>
<td>J. CTCSS control tone (Hz):</td>
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</tr>
<tr>
<td>K. Type of unit (i.e., microwave, cell)</td>
<td>FM Broadcast</td>
</tr>
<tr>
<td>L. Is power on continuously?</td>
<td>Yes  No</td>
</tr>
<tr>
<td>M. If amateur radio operator, is this unit:</td>
<td>Voice  Packet</td>
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</table>
EXHIBIT A  
TECHNICAL DATA SHEET  
Kamilche Tower  

5. Units (Transmitter only or Transmitter/Receiver):  

<table>
<thead>
<tr>
<th>Transmit Frequency (MHz)</th>
<th>Receive Frequency (MHz)</th>
<th>Channel</th>
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<td>270</td>
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6. Dish Antennas  

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<th>Diameter (Feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
<th>Beam Path Width</th>
<th>Beam Path Length</th>
<th>Azimuth</th>
<th>Angle Tilt</th>
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7. Pole (Stick or other type) Antennas  

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<th>Length (Feet)</th>
<th>Location on Tower (i.e., SE Leg)</th>
<th>Height on Tower at Base of Antenna</th>
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<tr>
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8. Destination of Signal Path  

- OLYMPIA  
- SHELTON  

9. Additional Information:  

- 2 Bay Side Antenna  
- Bay (2) oriented 13° True
United States of America
FEDERAL COMMUNICATIONS COMMISSION
FM BROADCAST TRANSLATOR/BOOSTER
STATION LICENSE

Official Mailing Address:
NORTHWEST INDIAN RADIO
611 NE 18TH AVE.
HILLSBORO OR 97124

Facility Id: 142952
Call Sign: K27O2J
License File Number: BLPT-2015008AAA

This license covers permit no.; BPPT-2015008AAA

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by the Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the licensee nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.
Call sign: K270CJ

License No.: E107-20151008AAAA

Name of Licensee: NORTHWEST INDY RADIO

Principal community to be served: WA-OLYMPIA

Primary Station: KKKY (FM), Channel 233, SHELTON, WA

Via: Other

Frequency (MHz): 101.9

Channel: 270

Hours of Operation: Unlimited

Antenna Coordinates: North Latitude: 47° 08' 20" sec
West Longitude: 123° 08' 23" sec

Transmitter Type: Accepted, See Sections 73.1660, 74.1250 of the Commission's Rules.

Transmitter output power: 0.28 kW

Antenna type: (directional or non-directional): Directional
Description: BEX LOG-R-PM-V X2 120 DEGREE SPLAY

Major lobe directions (degrees true):

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<th></th>
<th>Horizontally</th>
<th>Vertically</th>
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<tbody>
<tr>
<td></td>
<td>Polarized Antenna</td>
<td>Polarized Antenna</td>
</tr>
<tr>
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</table>

Effective radiated power in the Horizontal Plane (kW): 0.25

Height of radiation center above ground (Meters): 20

Height of radiation center above mean sea level (Meters): 410

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 31 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 301(g) of the Communications Act of 1934, as amended.

None Required

FCC Form 351B October 21, 1985
Page 2 of 3
Call sign: K270CJ

License No.: SLFT-20151008AAA

Special operating conditions or restrictions:

1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

*** END OF AUTHORIZATION ***
NW Indy Radio 101.9
Mason PUD 3
Contact Information:

Mason PUD 3

PO Box 2148
Shelton, WA 9584

360.432.1550 / 360.426.8255
telecomsupport@masonpud3.org
<table>
<thead>
<tr>
<th>Control Points</th>
<th>File Number:</th>
<th>Print Date:</th>
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<tr>
<td>Address: 307 W COTA STREET</td>
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</tr>
<tr>
<td>City: SHELTON</td>
<td>County: MASON</td>
<td>State: WA</td>
</tr>
<tr>
<td>Telephone Number: (360)426-8255</td>
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<td>Control Pt. No. 2</td>
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<td>Address: 235 S 3RD STREET</td>
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<tr>
<td>Telephone Number: (360)427-6205</td>
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**Associated Call Signs**

WPM/VP335

**Waivers/Conditions:**

NONE
Federal Communications Commission
Public Safety and Homeland Security Bureau

RADIO STATION AUTHORIZATION

Call Sign: WQMN541
File Number: 0000506243

Radio Service:
PA - Public Safety 4940-4990 MHz Band

Regulatory Status:
PMRS

Frequency Coordination Number:

Grant Date: 06-08-2011
Effective Date: 10-17-2014
Expiration Date: 06-09-2021
Print Date: 10-17-2014

STATION TECHNICAL SPECIFICATIONS

Loc. 1 Address: M.View Cbo
City: Shelton  County: MASON  State: WA
Lat (NAD83): 47-13-30.5 N  Long (NAD83): 123-05-19.8 W  ASR No.: 3015  Location 1 Special Condition:
Authorization on a secondary basis.
This authorization is issued under the condition that harmful interference will not be caused to existing Canadian licensed stations. This condition is subject to any future agreements with Canada.

Loc. 2 Address: Kasilof Tower
City: Kasilof  County: MASON  State: WA
Lat (NAD83): 47-08-19.7 N  Long (NAD83): 123-06-27.7 W  ASR No.: 3483  Location 2 Special Condition:
Authorization on a secondary basis.

Antennas

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Conditions:
Pursuant to §309(b) 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 to 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.

FCC 601-ULSH51
August 2007
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**Control Points**

Control Pt. No. 1
Address: 307 W Cota St.
City: Shelton  County: MASON  State: WA  Telephone Number: (360)426-8255

**Associated Call Signs**

<NA>

**Waivers/Conditions:**

This license gives the licensee authority to operate on any authorized channel in the 4840-4990 MHz band only within its legal jurisdiction, or in the case of a non-governmental organization, the legal jurisdiction of the state or local government entity supporting the non-governmental organization.
Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: MAISON COUNTY PUBLIC UTILITY DISTRICT 3

ATTN: TERRY YOUNG
MAISON COUNTY PUBLIC UTILITY DISTRICT 3
2621 E. JOHNS PRAIRIE RD
PO BOX 2149
SHELTON, WA 98584

FCC Registration Number (FRN): 000016694

Grant Date: 01-23-2013
Effective Date: 01-23-2013
Expiration Date: 04-16-2023
Print Date: 01-23-2013

Call Sign: WPGJ612
File Number: 0045634682

Radio Service: DG - Industrial/Business Pool, Conventional

Regulatory Status: PMRS

Frequency Coordination Number:

STATION TECHNICAL SPECIFICATIONS

Fixed Location: Address or Mobile Area of Operation

Loc. 1 Address: KAMISHLE
City: SHELTON
County: MAISON
State: WA
Lat (NAD83): 47-08-19.0 N
Long (NAD83): 123-08-20.0 W
ASR No.: Ground Elev: 356.0

Loc. 2 Address: POTLATCH
City: HOODSPORT
County: MAISON
State: WA
Lat (NAD83): 47-23-00.0 N
Long (NAD83): 123-11-06.0 W
ASR No.: Ground Elev: 185.0

Loc. 3 Address: DAYTON
City: SHELTON
County: MAISON
State: WA
Lat (NAD83): 47-13-57.0 N
Long (NAD83): 123-16-09.0 W
ASR No.: Ground Elev: 112.7

Loc. 4 Address: BANSON LAKE
City: GRAEFENAU
County: MAISON
State: WA
Lat (NAD83): 47-20-00.0 N
Long (NAD83): 122-45-08.0 W
ASR No.: Ground Elev: 85.0

Loc. 5 Address: PIONEER
City: SHELTON
County: MAISON
State: WA
Lat (NAD83): 47-16-24.0 N
Long (NAD83): 122-58-50.0 W
ASR No.: Ground Elev: 73.0

Loc. 6 Address: COLLINS LAKE
City: TASHOTKA
County: MAISON
State: WA
Lat (NAD83): 47-26-15.0 N
Long (NAD83): 122-57-22.0 W
ASR No.: Ground Elev: 57.9

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. §315(d). This license is subject to terms 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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## Federal Communications Commission
### Public Safety and Homeland Security Bureau

**LICENSEE:** Mason County PUD No. 3

**RADIO STATION AUTHORIZATION**

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<th>FCC Registration Number (FRN): 0000900069</th>
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**LOCATION**

**Fixed Location Address or Area of Operation:** NORTH MOUNTAIN 15 MILES NW

**City:** SHELTON  **County:** Mason  **State:** WA

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<th>Elevation</th>
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**FREQUENCY PATHS**

| Frequency (MHz) | Pol (%) | Emission Design | ERP (dBm) | Date | Path No. | Seq | Lic. No. | Act Hgt (m) | Ant Gain (dB) | Reflector H(m) x50 | Reflector H(m) x50 | Reflector H(m) x50 | Reflector H(m) x50 |
|-----------------|---------|-----------------|-----------|------|----------|-----|----------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 11155.0         | 0.000029 | 75(MG/7D)       | 59.000    | 05-28-2020 | 002 | 1  | 001 / 12.2 | 41.0 / 17.0 | 500 / 4.0 / 003 | 700 / 30.0 / 003 | 500 / 30.0 / 003 |
| 11155.0         | 0.000029 | 75(MG/7D)       | 62.000    | 05-28-2020 | 002 | 1  | 001 / 12.2 | 41.0 / 17.0 | 500 / 4.0 / 003 | 700 / 30.0 / 003 | 500 / 30.0 / 003 |
| 11155.0         | 0.000029 | 75(MG/7D)       | 65.000    | 05-28-2020 | 002 | 1  | 001 / 12.2 | 41.0 / 17.0 | 500 / 4.0 / 003 | 700 / 30.0 / 003 | 500 / 30.0 / 003 |
| 11155.0         | 0.000029 | 75(MG/7D)       | 71.000    | 05-28-2020 | 002 | 1  | 001 / 12.2 | 41.0 / 17.0 | 500 / 4.0 / 003 | 700 / 30.0 / 003 | 500 / 30.0 / 003 |
| 10755.0         | 0.000027 | 75(MG/7D)       | 59.000    | 05-28-2020 | 001 | 1  | 001 / 15.2 | 41.0 / 17.0 | 500 / 4.0 / 003 | 700 / 30.0 / 003 | 500 / 30.0 / 003 |
| 10755.0         | 0.000027 | 75(MG/7D)       | 62.000    | 05-28-2020 | 001 | 1  | 001 / 15.2 | 41.0 / 17.0 | 500 / 4.0 / 003 | 700 / 30.0 / 003 | 500 / 30.0 / 003 |

**Conditions:**

Pursuant to §309(b) of the Communications Act of 1934, as amended, 47 U.S.C. §309(b), 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 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.

FCC 601-ULSHS3  
August 2007  
Page 1 of 2
## Licensee Name: MASON COUNTY PUD NO: 3

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<th>Seg No</th>
<th>Emit Loc No</th>
<th>Ant Hgt (m)</th>
<th>Gain (dB)</th>
<th>Beam (deg)</th>
<th>Reflector Ht(m)</th>
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### Waivers/Conditions:

NONE
Federal Communications Commission  
Public Safety and Homeland Security Bureau  

RADIO STATION AUTHORIZATION  

LICENSEE: Mason County PUD No. 3  
ATN: TELECOM  
MASON COUNTY PUD NO 3  
2621 E. JOHN PRAIRIE RD  
PO BOX 2140  
SHELTON, WA 98584  

FCC Registration Number (FRN): 0001880960  

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LOCATION  

Fixed Location Address or Area of Operation:  
Kaukache Ridge  
City: Shelton  
County: MASON  
State: WA  

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FREQUENCY PATHS  

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<th>Eint</th>
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<th>Gain</th>
<th>Boom</th>
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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 this 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 to terms in the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. § 606.
Licensee Name: MASON COUNTY PUD NO 3

Call Sign: WRC7611

File Number: 000896994

Print Date: 12-13-2019

Waivers/Conditions:
NONE
MAISON PUD 3 SOUTH EAST FACE

PUD 3 5.8Ghz Sector Hurley Waldrip
MAISON PUD 3 SOUTH EAST FACE

PUD 3 5.8Ghz PTP Hurley Waldrip
MASON PUD 3 SOUTH EAST FACE

PUD 3  900Mhz Hurley Waldrip
MASON PUD 3 NORTH WEST FACE

PUD 3 11 Ghz PTP to North Mountain
MAISON PUD 3 NORTH WEST FACE

PUD 3 LMR WPMV835, 452.75
Mason PUD 3
Radio Frequency
Exposure Study
RADIO FREQUENCY EXPOSURE
FIELD MEASUREMENTS
AT KAMILCHE RIDGE
LAND MOBILE & FM TRANSMITTER SITE

Prepared for
Mason County PUD No. 3

Kamilche, Washington

December 2019
INTRODUCTION
Hatfield & Dawson Consulting Engineers has been retained by Mason County PUD No. 3 to evaluate the Radio Frequency (RF) exposure on the Kamikche Ridge Tower. On 23 December 2019, RF power density measurements were made around the electronic communications facility at Kamikche Ridge, located approximately 2.0 miles west-northwest of Kamikche, Washington. This site is a repurposed AT&T Long Lines site. This site is along the ridge line and is separated by 500 feet from the other wireless and land-mobile transmitter facilities to the south. The measurements were made between the hours of 10:00 AM and 12:00 PM. Measurements were made by Stephen S. Lockwood, P.E. of Hatfield & Dawson and on-tower measurements were made by Carl Roath and Brad Hanson of Mason County PUD No. 3. The FM transmitters at the site were confirmed to be operating at 100% of licensed power as the measurements were made.

From the FCC Database the broadcast FM facilities located at Kamikche Ridge are

<table>
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<tr>
<th>Call</th>
<th>Status</th>
<th>Licensee</th>
<th>Frequency (MHz)</th>
<th>Power (kW)</th>
<th>Height (Above Ground Level) From FCC Database</th>
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<tr>
<td>K277CZ</td>
<td>Construction Permit</td>
<td>I-FIBER Communications</td>
<td>106.3</td>
<td>0.25</td>
<td>20 meters 65 feet</td>
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<td>K277CZ</td>
<td>Licensed</td>
<td>I-FIBER Communications</td>
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<td>0.25</td>
<td>18 meters 52 feet</td>
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<td>K221DV</td>
<td>Licensed</td>
<td>Calvary Chapel of Twin Falls, Inc</td>
<td>92.1</td>
<td>0.019</td>
<td>17 meters 56 feet</td>
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<tr>
<td>K262CY</td>
<td>Licensed</td>
<td>Northwest Indy Radio</td>
<td>100.3</td>
<td>0.25</td>
<td>15 meters 43 feet</td>
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<tr>
<td>KRXY(FM)</td>
<td>Licensed</td>
<td>Olympia Broadcasters, Inc</td>
<td>94.5</td>
<td>0.83</td>
<td>20.1 meters 66 feet</td>
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<td>Northwest Indy Radio</td>
<td>101.9</td>
<td>0.25</td>
<td>20 meters 66 feet</td>
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Mason County PUD No.3 operates land mobile and microwave from this tower. There is also an AT&T Wireless facility at the top of the tower. There are a number of other land mobile users on this tower.
SITE ACCESS AND LOCATION
The Kamilche Ridge transmitter site is located on privately held land northwest of the community of Kamilche Washington. The site is surrounded by land owned by the Green Diamond Resource Company which is designated forest land. The tower is surrounded by a fence with a locking gate. This gate is posted with "No Trespassing" and appropriate RF Exposure signage.

MEASUREMENT PROCEDURES
Measurement procedures outlined in OET BULLETIN 65, (EDITION 97-01), [OET 65] "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields", ANSI/IEEE Std C95.3-2002, IEEE Recommended Practice for the Measurement and Computation of Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300GHz, and NCRP Report No. 119, "A Practical Guide to the Determination of Human Exposure to Radiofrequency Fields" were used for the measurements taken at the Kamilche Ridge site. Spatially averaged measurements were made at the points of interest and where the highest fields were found.

According to the ANSI C95.3 guidelines (reaffirmed in OET 65), measurements to determine exposure compliance are to be made at distances 20 cm or greater from any object. This is to ensure that the measurements are not contaminated by re-radiation from conductive objects.

TEST EQUIPMENT USED
NARDA 8718B Electromagnetic Radiation Survey Meters with a NARDA Model A8722D Isotropic Shaped Electric Field Probe was used to make the measurements. The NARDA A8722 series probe provides an output proportional to CFR 47 §1.1310 Radiofrequency Radiation Exposure Limits. The A8722D is for Occupational/Controlled environments. The Occupational/Controlled maximum permissible exposure (MPE) is 5 times higher than the General Population/Uncontrolled MPE. This measurement system display in percent of the

Hatfield & Dawson Consulting Engineers
MPE over a frequency range from 300 kHz to 3 GHz. The isotropic response of the NARDA 8722 probe series is +/-0.75 dB.

The NARDA Model 8718B Electromagnetic Radiation Survey Meter allows for accurate and repeatable spatially averaged measurements through the use of its time averaging feature. The NARDA diode probes, such as the Model 8722, are designed to provide signal detection on a square law basis and yields accurate readings of fields from multiple sources. Other available measurement devices, such as those manufactured by Holaday and Wandel & Golterman, use linear detection and square the signals after adding. If there are two signals of roughly equal intensity, E1 + E2, the desired summation is (E1)^2 + (E2)^2. The result obtained by squaring the signals after addition is (E1)^2 + (E1)(E2) + (E2)^2. The (E1)(E2) term results in a measurement error. For this reason the most accurate measurements of RF fields using diode detection are provided by use of probes such as the NARDA 8722D probe that utilize square law detection. Diode probe errors are also discussed in “Multiple-Source, Multiple Frequency Error of an Electric Field Meter” (Randa and Kanda).

<table>
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<th>Item</th>
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<td>Narda 8718B</td>
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<td>Narda A8722D</td>
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**MEASURED FIELDS**

There are no areas at ground level that exceed the MPE for General Population/Uncontrolled environments.

Areas on the tower are considered a controlled environment. All areas on the structure are below the Occupational/Controlled MPE except for the upper tower portion. With the exceptions
noted below all accessible areas on the mezzanine and top decks are also below the Occupational/Controlled MPE. The Occupational/Controlled MPE is exceeded eight feet below the KRXY antenna and in the aperture of this antenna. Areas at the top of the tower above the KRXY antenna were not measured. The Occupational/Controlled MPE is also exceeded on the south corner of the top deck, beneath the Scala/Kathrein CL-FM 3-element Log-periodic antenna which is used by 100.3 MHz. This antenna should be raised 5 feet in order to lower the exposure levels on the top deck.

Figure 1 Tower Elevation Sketch (Not to scale)
Figure 2 Mezzanine Level Measurements (% of Occupational MPE)
Figure 3 Top Deck Measurements (% of Occupational MPE)

Hatfield & Dawson Consulting Engineers
CONCLUSIONS AND RECOMMENDATIONS

With the noted log-periodic antenna (used by 100.3) raised by 5 feet, the signage on the tower remains appropriate. This antenna is mounted on the south corner of the upper tower section. The current safety plan applies.

3-Element Log periodic antenna upper left
All antenna on the tower should be labeled (with weather proof labels) as to the owner contact information and the call sign and radio service.
STATEMENT OF ENGINEER

This Engineering Report RADIO FREQUENCY EXPOSURE FIELD MEASUREMENTS AT KAMILCHE RIDGE, LAND MOBILE & FM TRANSMITTER SITE, has been prepared by the undersigned or under my direct supervision. All representations contained herein are true to the best of my knowledge. I am an experienced radio engineer whose qualifications are a matter of record with the Federal Communications Commission. I am a partner in the firm of Hatfield and Dawson Consulting Engineers and am Registered as a Professional Electrical Engineer in the States of Washington, Alaska, and Wyoming.

Stephen S. Lockwood, P.E.

9 January, 2019