

**PROPOSED MINOR MODIFICATION  
WAY TO SALVATION COMMUNITY CHURCH, CAMAS, WA  
FOR KCVD-LP FACILITY, FAC. ID No. 196496**

This proposal intends upon moving facility to new tower location and switch channels for improved coverage of its intended community.

**PROPOSAL**

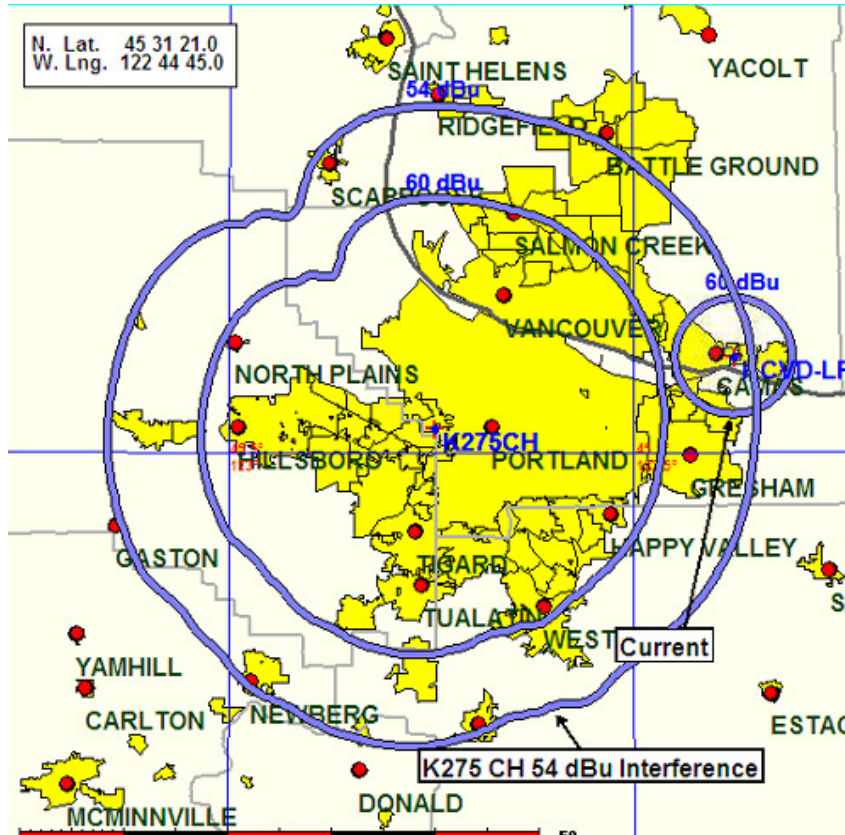
This application proposes the use of Channel 274 for Low Power FM, with the proposed parameters:

*Structure Coordinates: 45 39 17.9 N 122 22 32.1 W (NAD 83)*  
*Structure Coordinates: 45 39 18.5 W 122 22 27.8 W (NAD 27)*  
*GROUND 207 meters*  
*TOWER 50 meters*  
*AGL 50 m*  
*AMSL 257 m*  
*HAAT 6.2 m*  
*ERP 100*  
*CHANNEL 274*

**WAIVER REQUEST**

Total distance from the current site to the proposed site is 7.8 km. Permittee respectfully requests a waiver of the 5.6 km limitation move for good reason:

- (1) Facility currently (CH 273) and proposes (CH 274) to move to a frequency that has first adjacent 60 dBu contour almost kissing it—K275CH. K275CH is a 99 watt translator at 453 M HAAT which gets extended coverage for Portland, OR (an identical situation on CH 273 with K272EL). Facility receives unanticipated incoming interference.

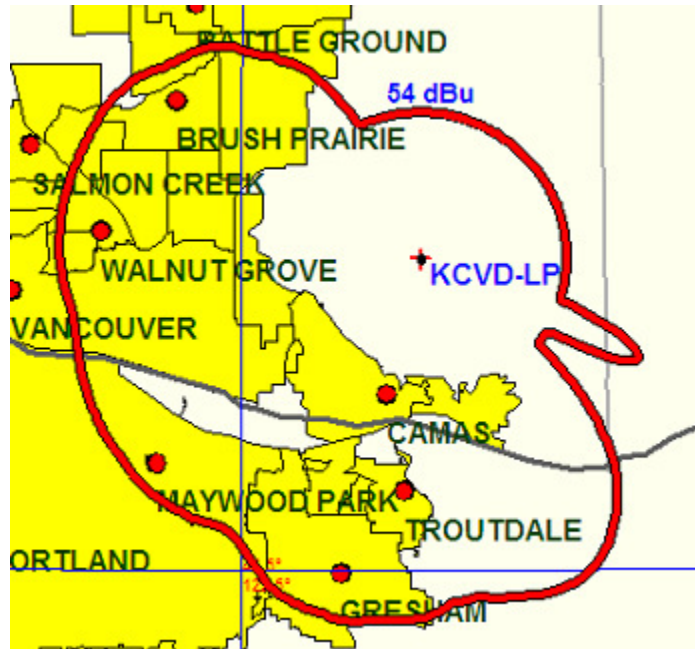


- (2) The permittee has not found a suitable location within 5.6 km to relocate to that would provide a robust enough signal to overcome the interference. A 7.8 km move would provide a signal sustainable for broadcast
- (3) Permittee has been looking for relocation sites since grant. Due to limitations in height, zoning, and local permitting, the found site equates to the best employable option at this point to achieve license to cover by the construction permit deadline.

**FAA CLEARANCE**

Proposed shall be mounted on an existing tree.

| <b>DETERMINATION Results</b>  |                  |
|---|------------------|
| <b>Structure does not require registration. The structure meets the 6.10-meter (20-foot) Rule criteria.</b> |                  |
| <b>Your Specifications</b>  |                  |
| <b>NAD83 Coordinates</b>  |                  |
| Latitude  | 45-39-17.9 north |
| Longitude   | 122-22-32.0 west |
| <b>Measurements (Meters)</b>  |                  |
| Overall Structure Height (AGL)  | 50               |
| Support Structure Height (AGL)  | 50               |
| Site Elevation (AMSL)   | 257              |
| <b>Structure Type</b>   |                  |
| TREE - When used as a support for an antenna  |                  |

**COVERAGE**

Proposed 60 dBu F(50,50) Contour

**SPACING**

The Way To Salvation Community Church

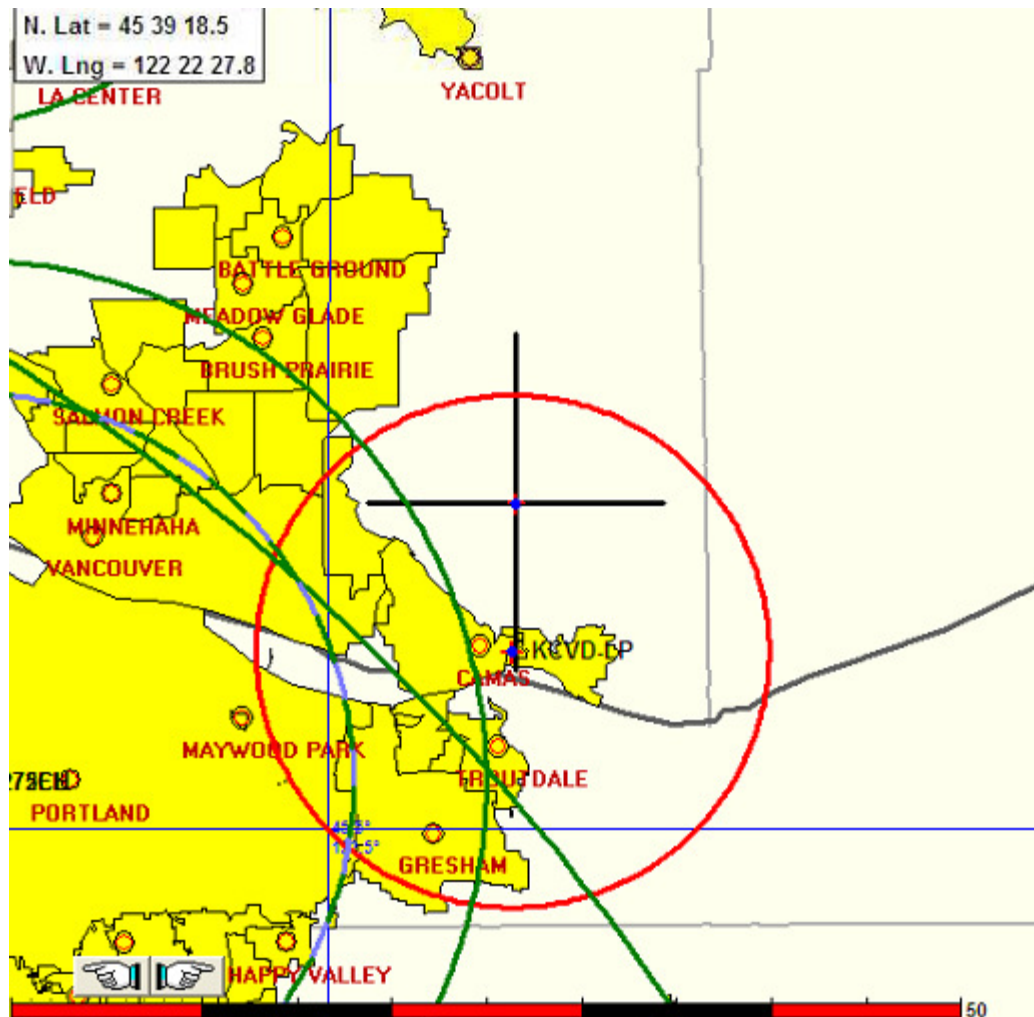
|                                     |                              |                 |
|-------------------------------------|------------------------------|-----------------|
| REFERENCE                           |                              | DISPLAY DATES   |
| 45 39 18.5 N.                       | CLASS = L1 Int = L1          | DATA 04-18-15   |
| 122 22 27.8 W.                      | Current Spacings to 2nd Adj. | SEARCH 08-04-15 |
| ----- Channel 274 - 102.7 MHz ----- |                              |                 |

| Call    | Channel     | Location     | Azi      | Dist   | FCC   | Margin |
|---------|-------------|--------------|----------|--------|-------|--------|
| KCVD-LP | LIC 273L1   | Camas        | WA 180.9 | 7.85   | 13.5  | -5.7   |
| K275CH  | LIC 275D    | Gresham      | OR 243.1 | 32.51  | 27.5  | 5.0    |
| K275CH  | APP 275D    | Gresham      | OR 243.1 | 32.51  | 27.5  | 5.0    |
| KYTE    | CP -N 274C0 | Independence | OR 224.2 | 132.29 | 121.5 | 10.8   |
| K272EL  | LIC-D 272D  | Portland     | OR 243.1 | 32.51  | 20.5  | 12.0   |
| K273AI  | LIC 273D    | Ariel        | WA 322.5 | 50.77  | 20.5  | 30.3   |
| K273AJ  | LIC 273D    | Elwood       | OR 173.6 | 58.60  | 27.5  | 31.1   |
| KYNW    | LIC 275C    | Centralia    | WA 338.5 | 158.08 | 119.5 | 38.6   |

-----

Reference station has protected zone issue: Canada  
All separation margins include rounding

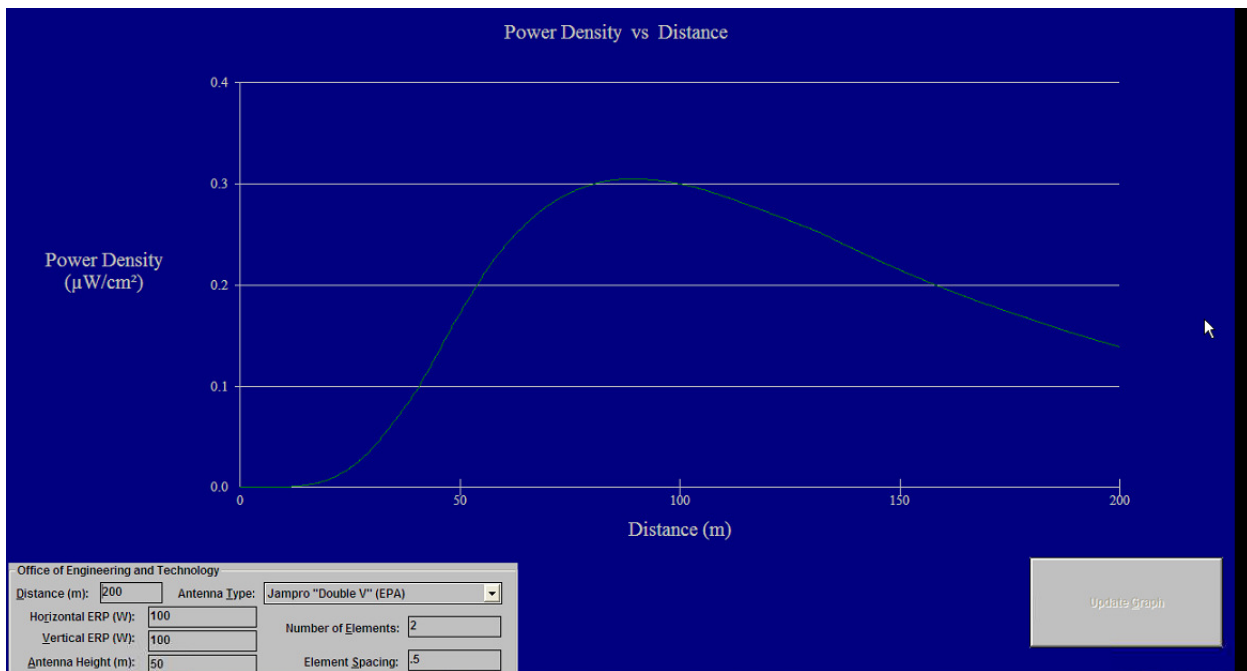
## SPACING MAP



## NON-IONIZING ELECTROMAGNETIC RADIATION (NEIR) ANALYSIS

The Effective Radiated Power for proposed will be 100 watts, mounted on a tree 50 meters above the ground. The OET program *FM Model* for Windows, Version 2.10 Beta was used to determine the maximum predicted RF exposure. The settings used were:

Antenna: Jampro Douple V  
 Vertical ERP (W): 100  
 Horizontal ERP (W): 100  
 Antenna Height (m): 50  
 Number of Elements: 2  
 Spacing: .5



Using these settings, the maximum predicted RF exposure for a human standing on the ground would be less than 0.31 at 89.4 m. This represents less than 1% of the FCC Maximum Permissible Exposure (MPE) of 200  $\mu\text{W}/\text{cm}^2$  for uncontrolled environments. 47 CFR 1.1307(b)(3) exempts applicants from preparing an Environmental Assessment when the predicted exposure levels would be less than 5% of the FCC limits.

The tower will be inaccessible by the public and will have a no climbing with a warning sign to potential climbers. Facility is on private property. If work on tower is required facility will be temporarily powered down.