

CITY OF LICENSE
FACILITY ID
PREPARED FOR
VERSION
JOB

Camas WA
196496
The Way to Salvation Community Church
1.0
117052

CONSOLIDATED

ENGINEERING EXHIBIT

FCC Form 318 - Section VI - LPFM Engineering, Tech Box

BROWN BROADCAST SERVICES

Michael D. Brown

INCORPORATED
3740 S.W. Comus St. Portland, Oregon 97219-7418

503-245-6065

ENGINEERING STATEMENT

PROPOSED MINOR CHANGE TO KIEV-LP, CAMAS, WA

The Way to Salvation Community Church

SUMMARY:

The applicant proposes to move down one channel, to ch273, to minimize incoming interference issues. No other changes are proposed.

This proposal is fully spaced to all other facilities.

PERTINENT SPECIFICATIONS NOT INCLUDED IN SECTION VI - TECH BOX:

HAAT: 30 meters

ERP: 100 watts

DATA SOURCE: V-Soft FMCommander with HAAT Method 0(zero); FCC 30 Second
Terrain

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EXHIBIT 11

INTERFERENCE

KIEV-LP to ch273
The Way To Salvation Community Church

REFERENCE		CLASS = L1 Int = L1	DISPLAY DATES
45 39 22.9 N.			DATA 09-02-17
122 23 03.6 W.		Current Spacings to 2nd Adj.	SEARCH 09-08-17
----- Channel 273 - 102.5 MHz -----			

Call		Channel	Location		Azi	Dist	FCC	Margin
KIEV-LP	LIC	274L1	Camas	WA	0.0	0.00	14.0	-14.0
K272EL	LIC-D	272D	Portland	OR	242.2	31.89	28.0	3.9
K275CH	LIC	275D	Gresham	OR	242.2	31.89	21.0	10.9
K273AI	LIC	273D	Ariel	WA	323.1	50.19	32.0	18.2
K273AJ	LIC	273D	Elwood	OR	172.9	58.83	39.0	19.8
KYTE	CP -N	274C0	Independence	OR	223.9	131.85	111.0	20.9
One Step Application								
KYYT	LIC-Z	272C2	Goldendale	WA	88.1	115.05	80.0	35.1
One-step application from Channel 272C3.								

PROTECTED ZONES REPORT:

Protected zones report for KIEV-LP on channel 273L1 09-12-2017
Lat. 45 39 22.9 Lng. 122 23 03.6, ERP= 0.1 kw, HAAT= 30 m

Distance to border = 298.2 km.

Facility is okay with respect to AM station towers.

Closest AM Facility is KPAM, TROUTDALE, OR, L, DAN at 263.9° at a distance of 10.1 km

Facility is okay with respect to FCC monitoring stations.

Closest FCC Monitoring Station is 367.0 km= Ferndale, WA

Facility is okay toward West Virginia Quiet Zone. Distance to center = 3643.1 km

Facility is okay toward Table Mountain. Distance to Center = 1528.8 km, Azimuth = 107.7 Degrees True

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EXHIBIT 14

ENVIRONMENTAL PROTECTION ACT / NIER ANALYSIS

The applicant will continue to use an existing 1-bay SWR FM1 antenna at 31m AGL. RF exposures were calculated using FM Model (online edition), using the appropriate "Type 1" setting. FM Model predicted a peak exposure of $4.8\mu\text{W}/\text{cm}^2$ at 7.8 meters from the base.

The support structure is a tree which is not readily climbable without specialized equipment. If work on or near the antenna becomes necessary, the transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits. RF warning signs will be posted at the site.

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