

CITY OF LICENSE
CALL SIGN
FACILITY ID
PREPARED FOR
VERSION
JOB

Pendleton, OR
KCUW-LP
134558
Confederated Tribes of the Umatilla Indian Reservation
1.0
118061

CONSOLIDATED

ENGINEERING EXHIBIT

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

EXHIBIT E-1
ENGINEERING STATEMENT
PROPOSED MINOR-CHANGE TO LICENSED STATION
KCUW, Pendleton, OR
Confederated Tribes of the Umatilla Indian Reservation

SUMMARY:

The applicant seeks a minor change to this licensed station, moving to a new location on a building rooftop on tribal property - a distance of 1.86km. The frequency would change for Ch282/104.3MHz, to Ch281/104.1MHz.

This proposal is fully spaced to all co, first, and second-adjacent stations.

PERTINENT SPECIFICATIONS NOT INCLUDED IN THE LMS APPLICATION:

HAAT:	-57 meters
ERP:	100 watts
HAAT CALC METHOD:	V-Soft FM Commander
SUPPORT STRUCTURE:	Pole on Building

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EXHIBIT E-2 INTERFERENCE

SPACINGS:

KCUW-LP Minor Mod to Casino Bldg
Confederated Tribes Of The Umatilla Indi

REFERENCE

45 38 53.00 N.

CLASS = L1

DISPLAY DATES

DATA 07-23-20

118 40 46.00 W.

Current Spacings to 2nd Adj.

SEARCH 07-24-20

----- Channel 281 - 104.1 MHz -----

Call	Channel	Location	Azi	Dist	FCC	Margin	
KCUW-LP LIC	282L1	Pendleton	OR	341.9	1.86	14.0	-12.1*
K SVM-LP LIC	280L1	Walla Walla	WA	30.9	48.71	14.0	34.7
AL2336 VAC	280C3	Monument	OR	214.0	105.25	67.0	38.3
K283BU LIC	283D	Walla Walla	WA	24.6	51.30	8.0	43.3

*Station as Licensed

PROTECTED ZONES REPORT:

Facility is okay with respect to Canada. Distance = 372.7 km.

Facility is okay with respect to AM station towers.

Closest AM Facility is KUMA, PENDLETON, OR, L, DAN at 298.6° at a distance of 5.9 km

Facility is okay with respect to FCC monitoring stations.

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EXHIBIT E-3

ENVIRONMENTAL PROTECTION ACT / NIER ANALYSIS

The applicant proposes a Shively 6812 1-bay antenna at 38m AGL, on rooftop pole. The proposed ERP is 100 watts. The antenna will be 9m above the uppermost populated surface - the top floor of the building. Using the appropriate "Type 1" setting in FM Model (online version), the program predicts a peak exposure of $82\mu\text{W}/\text{cm}^2$, at 2 meters horizontally from the pole. This represents 41% of the Maximum Permissible Exposure (MPE) of $200\mu\text{W}/\text{cm}^2$ for uncontrolled environments. The other emitters in the area are low power intermittent land-mobile in nature, and are not significant contributors to overall public exposure.

Public access to the pole is restricted by locked access doors. The site will be posted with appropriate RF exposure warning signs. If maintenance by authorized personnel becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.

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