

TELECOMMUNICATIONS ENGINEERING
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13 October 2021
Prepared for Radio Tierra
KZAS-LP, Hood River, Oregon

JUSTIFICATION FOR NEED TO MODIFY TO NON-ADJACENT CHANNEL

On 13 September 2021, Sunnylands Broadcasting, LLC, filed an application to construct a new, co-channel station at Odell, Oregon (LMS File Number 0000159271).

The close proximity of the proposed transmitter and the licensed KZAS-LP transmitter assure mutual co-channel prohibited overlap. A map exhibit showing the location and extent of the KZAS-LP protected and interfering contours, as well as those of the new facility at Odell, attached, demonstrates this conclusively.





Attached also are preclusion studies for the three adjacent channels, above and below, the KZAS-LP licensed facilities as well as the IF channels 53 and 54 channels above the KZAS-LP licensed facility, which demonstrate conclusively that it is not possible to modify the KZAS-LP license to eliminate this interference as a minor modification.

KZAS-LP

BLL20040921AAA
Latitude: 45-42-15.40 N
Longitude: 121-31-28.20 W
ERP: 0.10 kW
Channel: 236
Frequency: 95.1 MHz
AMSL Height: 153.0 m
Elevation: 134.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

NEW

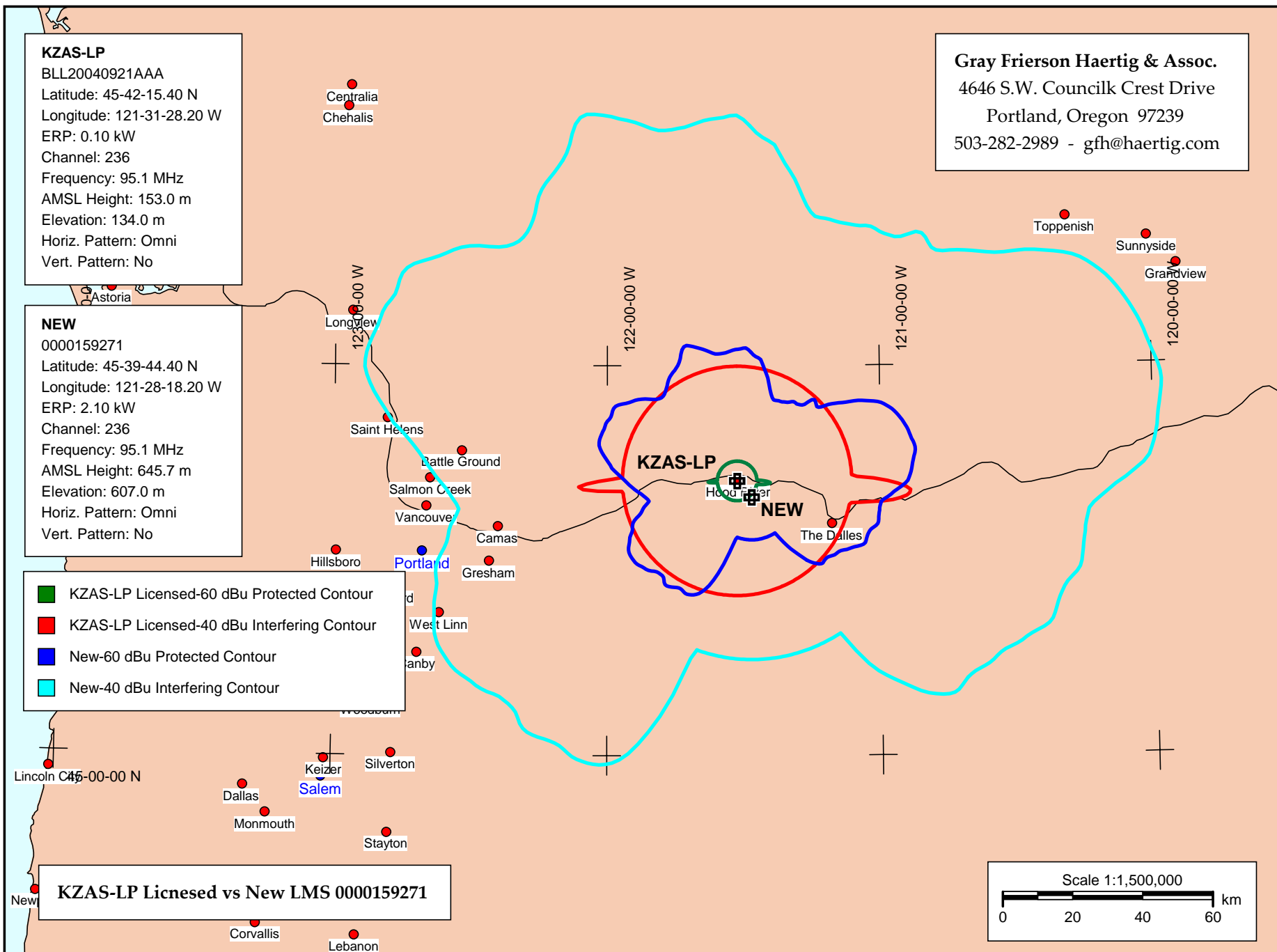
0000159271
Latitude: 45-39-44.40 N
Longitude: 121-28-18.20 W
ERP: 2.10 kW
Channel: 236
Frequency: 95.1 MHz
AMSL Height: 645.7 m
Elevation: 607.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

-  KZAS-LP Licensed-60 dBu Protected Contour
-  KZAS-LP Licensed-40 dBu Interfering Contour
-  New-60 dBu Protected Contour
-  New-40 dBu Interfering Contour

KZAS-LP Licnesed vs New LMS 0000159271

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Hood River, Oregon

REFERENCE		DISPLAY DATES
45 42 15.40 N.	Class L1 Adjacent Channel Preclusions	DATA 10-05-21
121 31 28.20 W.	Current Spacings to 2nd Adj.	SEARCH 10-13-21

Call	Channel	Location		Azi	Dist	FCC	Margin

--- Channel 233 94.5 MHz. ---							
KZZR	LIC	232C2	Government Camp	OR	199.7	43.78	79.5 -35.7
K232CK	LIC-D	232D	Hood River	OR	314.0	6.05	27.5 -21.5
--- Channel 234 94.7 MHz. ---							
NEW	APP	236C3	Odell	OR	138.7	6.21	39.5 -33.3
K232CK	LIC-D	232D	Hood River	OR	314.0	6.05	20.5 -14.5
KZZR	LIC	232C2	Government Camp	OR	199.7	43.78	52.5 -8.7
--- Channel 235 94.9 MHz. ---							
NEW	APP	236C3	Odell	OR	138.7	6.21	66.5 -60.3
AU9861581	VAC	236A	Trout Lake	WA	355.5	38.84	55.5 -16.7
KZAS-LP	LIC	236L1	Hood River	OR	0.0	0.00	13.5 -13.5
--- Channel 236 95.1 MHz. ---							
NEW	APP	236C3	Odell	OR	138.7	6.21	77.5 -71.3
AU9861581	VAC	236A	Trout Lake	WA	355.5	38.84	66.5 -27.7
KZAS-LP	LIC	236L1	Hood River	OR	0.0	0.00	23.5 -23.5
--- Channel 237 95.3 MHz. ---							
NEW	APP	236C3	Odell	OR	138.7	6.21	66.5 -60.3
AU9861581	VAC	236A	Trout Lake	WA	355.5	38.84	55.5 -16.7
KBFF	LIC	238C0	Portland	OR	255.7	94.46	110.5 -16.0
KZAS-LP	LIC	236L1	Hood River	OR	0.0	0.00	13.5 -13.5
--- Channel 238 95.5 MHz. ---							
NEW	APP	236C3	Odell	OR	138.7	6.21	39.5 -33.3
KBFF	LIC	238C0	Portland	OR	255.7	94.46	121.5 -27.0
KRSX	LIC	240C2	Goldendale	WA	88.3	31.70	52.5 -20.8
--- Channel 239 95.7 MHz. ---							
KRSX	LIC	240C2	Goldendale	WA	88.3	31.70	79.5 -47.8
KBFF	LIC	238C0	Portland	OR	255.7	94.46	110.5 -16.0

All separation margins include rounding

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REFERENCE						DISPLAY DATES
45 42 15.40 N.		Class L1 IF Channel	Preclusions			DATA 10-05-21
121 31 28.20 W.		Current Spacings to 2nd Adj.				SEARCH 10-13-21

Call	Channel	Location		Azi	Dist	FCC	Margin

--- Channel 289 105.7 MHz. ---							
KCGB-FM	LIC 288A	Hood River	OR	138.7	6.21	55.5	-49.3
KFBW	LIC-N 290C1	Vancouver	WA	258.4	97.48	99.5	-2.0
--- Channel 290 105.9 MHz. ---							
KCGB-FM	LIC 288A	Hood River	OR	138.7	6.21	28.5	-22.3
KFBW	LIC-N 290C1	Vancouver	WA	258.4	97.48	110.5	-13.0

All separation margins include rounding