

KJYY-LD MINOR MOD APPLICATION TO OPTIMIZE CH 29 COVERAGE
15 kW DIRECTIONAL FACILITY ID 49733 PORTLAND, OREGON
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
APRIL 2022

KJYY-LD is licensed for operation on CH 29 under File Number 0000165307. This application proposes a minor change in site location to the Portland Skyline Drive antenna farm. The proposed facility qualifies as a minor change as there is no change in channel of operation, there is significant overlap of the present and proposed LPTV service contours and the proposed site is only 15.8 kilometers from the licensed site in compliance with 74.787 (b) (iii). Map Figures 1 and 2 attached depict the proposed and licensed signal levels based on output files generated in FCC TVStudy.

The facility modification improvement is proposed to significantly improve both noise-limited and in-home DTV reception in the market by:

Increasing the antenna RC AMSL from 351 to 570.9 meters.

Implementing 70% V.Pol. compared to the current H.Pol. only.

Broader horizontal plane pattern to provide a stronger signal over a broader area.

The proposed 50.2 dBu noise limited, interference free signal, when compared to the license, serves 175,379 more people, 6,067 additional people who are Hispanic, 64,914 more homes and 4,615 square kilometers of additional area. Marion and Yamhill are the only counties experiencing a noticeable loss of pop and those pops are 24,141 persons and 9,588 respectively totaling 33,729 persons which is 1.6% of the licensed pop and believed deminimis given an 8.9% increase in total pop.

A detailed summary comparison for the interference free 84 dBu, in building set top antenna reception, signal level shows a 494,168 person increase of population served and a loss of only 1,054 persons receiving the current signal and a loss of only 50 Hispanic viewers compared to a Hispanic pop gain of 88,165 persons.

The final public interest benefit is that the licensed KJYY-LD noise limited interference free pop is 1,662,720 persons while the proposed value is 1,937,479 an increase of 274,759 persons,

The facility does have a protection to CH 29 LPTV KOPB-TV licensed under File Number 0000149856. Interference from the proposed KJYY-LD CH 29 DTV facility cannot exceed the current baseline limit of interference. *That limit is terrain limited pop of 140,807 and an interference free pop of 97,575 persons.* **The proposed facility specified herein is associated with a KOPB-TV increase in interference free pop of 4,112 persons to 101,687 persons.**

The applicant proposes herein to move to an existing TV tower with FCC Registration #1207367. The proposed antenna system is an ATC model ATC-BCE514CT170-V4-29 antenna oriented at an azimuth bearing of 12.5 degrees true with 1.25 degrees of electrical beam tilt. Mechanical beam tilt of 2 degrees is proposed at an azimuth of 192.5 degrees. The antenna is a UHF slot antenna, elliptically polarized with custom 14 slot elevation pattern. The maximum relative field in the elevation pattern across the depression angle range of 15 to 90 degrees is less than 0.15 with a radiation center 248.1 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 0.15 has been used to calculate the power density 2 meters above ground. The maximum power density is 14.1 uw/cm squared calculated for an ERP of 15,000 watts H. polarization and 10,500 V. polarization. This value is 3.77% of the Public Exposure MPE per section 1.1310. Based on this analysis it is believed that the proposed facility follows OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The proposed tower is existing along with the transmitter building, access road and power.

Below is a copy of the TVStudy report and interference analysis for CH 29 based on the facilities described above. As can be seen at the conclusion of the report there is no impermissible new ISIX interference. It is believed that the proposed facility provides full protection to other television facilities.

KUFO(AM)

KUFO(AM) operates from a single non-directional tower, daytime hours only, 330' SE of the proposed KJYY-LD site location. During nighttime hours a second tower, 510 feet E-SE of the proposed KJYY site is employed for KUFO(AM) nighttime operation. KJYY will follow FCC Rule Section 1.30000 as necessary to demonstrate that the proposed antenna and transmission line, both of which will be bonded to the structure in accordance with good engineering practice, will not impact the AM antenna patterns.

TVStudy Report:

Study created: 2022.04.18 13:04:27
Study build station data: LMS TV 2022-04-18
Proposal: KJYY-LD D29 LD APP PORTLAND, OR
File number: BLANK0000150498
Facility ID: 49733
Station data: User record
Record ID: 1084
Country: U.S.
Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
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No	K28FP-D	D28	LD	LIC	ASTORIA, OR	BLANK0000073365	124.2 km
No	K28MH-D	D28	LD	CP	BEND, OR	BLANK0000177436	201.5
No	K28QU-D	D28	LD	CP	EUGENE, OR	BNPDTL20090825BFA	171.0
No	KVAL-TV	D28	DT	CP	EUGENE, OR	BLANK0000156960	171.0
No	K28CQ-D	D28	LD	LIC	HOOD RIVER, OR	BLDTT20120514ACX	93.2
No	K40MP-D	D28	LD	LIC	Madras, OR	BLANK0000063058	162.0
No	K28IH-D	D28	LD	LIC	RAINIER, OR	BLDTT20091103AAJ	72.4
No	K28MJ-D	D28	LD	LIC	TILLAMOOK, OR	BLDTT20111209DLD	86.4
No	K29KU-D	D29	LD	LIC	BEND, OR	BLANK0000121241	166.5
No	K29KR-D	D29	LD	LIC	CAMAS VALLEY, OR	BLDTT20121025ABP	291.5
No	K29NI-D	D29	LD	LIC	CAVE JUNCTION, OR	BLANK0000068674	369.7
Yes	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	171.0
No	K29JN-D	D29	LD	LIC	GOLD BEACH, OR	BLDTT20110513AAO	367.4
No	KDKF	D29	DT	LIC	KLAMATH FALLS, OR	BLCDT20080215APO	390.1
No	K29EG-D	D29	LD	LIC	MILTON, ETC, OR	BLDTT20101122AJO	349.1
Yes	K29AZ-D	D29	LD	LIC	NEWPORT, OR	BLDTT20111208ABT	133.3
No	K29LL-D	D29	LD	LIC	PHOENIX, TALENT, OR	BLANK0000064257	357.7
Yes	KOPB-TV	D29	LD	LIC	PORTLAND, OR	BLANK0000149856	26.8
No	K51FK-D	D29	LD	LIC	Rockaway Beach, OR	BLANK0000063315	97.1
Yes	K29NO-D	D29	LD	LIC	THE DALLES, OR	BLANK0000068895	127.6
Yes	K29IA-D	D29	LD	LIC	CENTRALIA, ETC., WA	BLDTT20090618ABC	118.1
No	K29ED-D	D29	LD	LIC	EVERETT, WA	BLDTL20110812ACJ	277.6
Yes	K29IB-D	D29	LD	LIC	GRAYS RIVER, ETC., WA	BLDTT20100511ACN	122.5
No	KRLB-LD	D29	LD	CP	RICHLAND, ETC, WA	BLANK0000029420	275.9
No	KCYU-LD	D29	LD	LIC	YAKIMA, WA	BLANK0000072828	205.1
No	K30QL-D	D30	LD	CP	ASTORIA, OR	BLANK0000071978	135.0
No	KOAB-TV	D30	LD	LIC	BEND, OR	BLEDT20111104AIS	142.0
No	KOMO-TV	D30	DT	LIC	SEATTLE, WA	BLANK0000126112	237.0
No	KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	1.3
No	KUNW-CD	D30	DC	LIC	YAKIMA, WA	BLDTL20090923ACQ	205.5

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

KUFO 970 L DAN D PORTLAND, OR BL3424

KUFO 970 L DAN N PORTLAND, OR BL3424

Record parameters as studied:

Channel: D29
Mask: Full Service
Latitude: 45 30 57.80 N (NAD83)
Longitude: 122 44 3.10 W
Height AMSL: 570.9 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: ATC-BCE514CT170-V4-29 04012022 12.5 deg
Elev Pattrn: ATC ELEV PATTERN CUSTOM 1.25 BT 14 BAY
Tilts: elec 1.25, mech 2.00 @ 192.5 deg

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	9.27 kW	547.7 m	63.8 km
45.0	8.80	542.1	63.4
90.0	14.8	507.1	65.6
135.0	4.52	495.3	58.0
180.0	0.079	473.7	32.7
225.0	0.532	483.8	44.6
270.0	9.19	505.0	62.6
315.0	12.7	391.1	60.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 493 m

Distance to Canadian border: 307.2 km

Distance to Mexican border: 1506.2 km

Conditions at FCC monitoring station: Ferndale WA

Bearing: 2.0 degrees Distance: 382.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 106.6 degrees Distance: 1540.4 km

Study cell size: 0.50 km

Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

**IX check failure to BLANK0000149856 LIC scenario 1, 14.11% interference caused

---- Below is IX received by proposal BLANK0000150498 ----

Proposal receives 7.46% interference from scenario 1

TVIX Study

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000150498 #1419, Model: Longley-Rice
Start: 2022.04.18 13:04:27

Study created: 2022.04.18 13:04:27

Study build station data: LMS TV 2022-04-18

Proposal: KJYY-LD D29 LD APP PORTLAND, OR
File number: BLANK0000150498
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Station data: User record
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No	K28QU-D	D28	LD	CP	EUGENE, OR	BNPDTL20090825BFA	171.0
No	KVAL-TV	D28	DT	CP	EUGENE, OR	BLANK0000156960	171.0
No	K28CQ-D	D28	LD	LIC	HOOD RIVER, OR	BLDTT20120514ACX	93.2
No	K40MP-D	D28	LD	LIC	Madras, OR	BLANK0000063058	162.0
No	K28IH-D	D28	LD	LIC	RAINIER, OR	BLDTT20091103AAJ	72.4
No	K28MJ-D	D28	LD	LIC	TILLAMOOK, OR	BLDTT20111209DLD	86.4
No	K29KU-D	D29	LD	LIC	BEND, OR	BLANK0000121241	166.5
No	K29KR-D	D29	LD	LIC	CAMAS VALLEY, OR	BLDTT20121025ABP	291.5
No	K29NI-D	D29	LD	LIC	CAVE JUNCTION, OR	BLANK0000068674	369.7
Yes	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	171.0
No	K29JN-D	D29	LD	LIC	GOLD BEACH, OR	BLDTT20110513AAO	367.4
No	KDKF	D29	DT	LIC	KLAMATH FALLS, OR	BLCDT20080215APO	390.1
No	K29EG-D	D29	LD	LIC	MILTON, ETC, OR	BLDTT20101122AJO	349.1
Yes	K29AZ-D	D29	LD	LIC	NEWPORT, OR	BLDTT20111208ABT	133.3
No	K29LL-D	D29	LD	LIC	PHOENIX, TALENT, OR	BLANK0000064257	357.7
Yes	KOPB-TV	D29	LD	LIC	PORTLAND, OR	BLANK0000149856	26.8
No	K51FK-D	D29	LD	LIC	Rockaway Beach, OR	BLANK0000063315	97.1
Yes	K29NO-D	D29	LD	LIC	THE DALES, OR	BLANK0000068895	127.6
Yes	K29IA-D	D29	LD	LIC	CENTRALIA, ETC., WA	BLDTT20090618ABC	118.1
No	K29ED-D	D29	LD	LIC	EVERETT, WA	BLDTL20110812ACJ	277.6
Yes	K29IB-D	D29	LD	LIC	GRAYS RIVER, ETC., WA	BLDTT20100511ACN	122.5

No	KRLB-LD	D29	LD	CP	RICHLAND, ETC, WA	BLANK0000029420	275.9
No	KCYU-LD	D29	LD	LIC	YAKIMA, WA	BLANK0000072828	205.1
No	K30QL-D	D30	LD	CP	ASTORIA, OR	BLANK0000071978	135.0
No	KOAB-TV	D30	LD	LIC	BEND, OR	BLEDT20111104AIS	142.0
No	KOMO-TV	D30	DT	LIC	SEATTLE, WA	BLANK0000126112	237.0
No	KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	1.3
No	KUNW-CD	D30	DC	LIC	YAKIMA, WA	BLDTL20090923ACQ	205.5

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

KUFO 970 L DAN D PORTLAND, OR BL3424

KUFO 970 L DAN N PORTLAND, OR BL3424

Record parameters as studied:

Channel: D29

Mask: Full Service

Latitude: 45 30 57.80 N (NAD83)

Longitude: 122 44 3.10 W

Height AMSL: 570.9 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: ATC-BCE514CT170-V4-29 04012022 12.5 deg

Elev Pattn: ATC ELEV PATTERN CUSTOM 1.25 BT 14 BAY

Tilts: elec 1.25, mech 2.00 @ 192.5 deg

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	9.27 kW	547.7 m	63.8 km
45.0	8.80	542.1	63.4
90.0	14.8	507.1	65.6
135.0	4.52	495.3	58.0
180.0	0.079	473.7	32.7
225.0	0.532	483.8	44.6
270.0	9.19	505.0	62.6
315.0	12.7	391.1	60.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 493 m

Distance to Canadian border: 307.2 km

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Conditions at FCC monitoring station: Ferndale WA
Bearing: 2.0 degrees Distance: 382.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 106.6 degrees Distance: 1540.4 km

Study cell size: 0.50 km
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLEDT20050127AHY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	
Undesireds:	KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	171.0 km
	KVAL-TV	D28	DT	CP	EUGENE, OR	BLANK0000156960	0.0
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	171.4
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	20661.6	577,987	17964.6	528,550	17761.8 524,747	17752.5 524,027	0.05 0.14
Undesired			Total IX		Unique IX, before	Unique IX, after	
KJYY-LD D29 LD APP		17.0	753			9.2 720	
KVAL-TV D28 DT CP		191.3	3,758		191.3 3,758	191.3 3,758	
KPDX D30 DT LIC		11.5	45		11.5 45	3.7 12	

Interference to BLEDT20050127AHY LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	
Undesireds:	KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	171.0 km
	KVAL-TV	D28	DT	BL	EUGENE, OR	DTVBL49766	0.0

KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	171.4
Service area	Terrain-limited		IX-free, before		IX-free, after	
20661.6	577,987	17964.6	528,550	17761.8	524,747	17752.5
						Percent New IX
						0.05 0.14
Undesired		Total IX		Unique IX, before		Unique IX, after
KJYY-LD D29 LD APP	17.0	753		9.2		720
KVAL-TV D28 DT BL	191.3	3,758		191.3		3,758
KPDX D30 DT LIC	11.5	45		11.5		45
						3.7 12

Interference to BLDTT20111208ABT LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K29AZ-D	D29	LD	LIC	NEWPORT, OR	BLDTT20111208ABT	
Undesireds:	KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	133.3 km
	K28MJ-D	D28	LD	LIC	TILLAMOOK, OR	BLDTT20111209DLD	55.9
	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	112.0
	KOPB-TV	D29	LD	LIC	PORTLAND, OR	BLANK0000149856	106.6
	K51FK-D	D29	LD	LIC	Rockaway Beach, OR	BLANK0000063315	110.1
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	132.8
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
5528.8	47,273	5225.1	45,227	5219.9	45,227	5219.9	45,227
						0.00 0.00	

Undesired		Total IX		Unique IX, before		Unique IX, after	
KJYY-LD D29 LD APP	0.2	0		0.0		0	
K28MJ-D D28 LD LIC	1.2	0		0.5		0	
KEPB-TV D29 DT LIC	3.2	0		3.2		0	
KOPB-TV D29 LD LIC	0.2	0		0.0		0	
K51FK-D D29 LD LIC	1.2	0		0.5		0	
KPDX D30 DT LIC	0.2	0		0.0		0	

Interference to BLANK0000149856 LIC scenario 1

**IX: 14.11% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KOPB-TV	D29	LD	LIC	PORTLAND, OR	BLANK0000149856	
Undesireds:	KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	26.8 km
	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	150.7
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	26.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1965.0 178,870	1705.1 146,625	1331.6 118,391	1252.5 101,687	5.94 14.11

Undesired	Total IX	Unique IX, before	Unique IX, after
KJYY-LD D29 LD APP	427.9 43,604	79.1 16,704	
KEPB-TV D29 DT LIC	21.0 2,172	12.3 1,622	7.2 559
KPDX D30 DT LIC	361.2 26,612	352.5 26,062	17.1 765

Interference to BLANK0000068895 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K29NO-D	D29	LD	LIC	THE DALLES, OR	BLANK0000068895	
Undesireds: KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	127.6 km
K28CQ-D	D28	LD	LIC	HOOD RIVER, OR	BLDTT20120514ACX	36.0
K29EG-D	D29	LD	LIC	MILTON, ETC, OR	BLDTT20101122AJO	221.8
KCYU-LD	D29	LD	LIC	YAKIMA, WA	BLANK0000072828	102.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6888.8 65,643	5976.2 49,550	5965.4 48,291	5964.7 48,291	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KJYY-LD D29 LD APP	0.7 0	0.7 0	
K28CQ-D D28 LD LIC	8.1 1,259	7.4 1,259	7.4 1,259
K29EG-D D29 LD LIC	1.0 0	1.0 0	1.0 0
KCYU-LD D29 LD LIC	2.5 0	1.7 0	1.7 0

Interference to BLDTT20090618ABC LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: K29IA-D	D29	LD	LIC	CENTRALIA, ETC., WA	BLDTT20090618ABC	
Undesireds: KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	118.1 km
KBTC-TV	D28	LD	LIC	TACOMA, WA	BLANK0000106274	130.9
K29IB-D	D29	LD	LIC	GRAYS RIVER, ETC., WA	BLDTT20100511ACN	39.1
KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	117.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
3252.7 99,677	2999.9 91,949	2969.7 89,804	2966.2 89,745	0.12 0.07

Undesired	Total IX	Unique IX, before	Unique IX, after
KJYY-LD D29 LD APP	3.7 59	3.4 59	
K29IB-D D29 LD LIC	30.0 2,145	30.0 2,145	30.0 2,145

KPDX D30 DT LIC 0.2 0 0.2 0 0.0 0

Interference to BLDTT20100511ACN LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K29IB-D	D29	LD	LIC	GRAYS RIVER, ETC., WA	BLDTT20100511ACN	
Undesireds:	KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	122.5 km
	K28FP-D	D28	LD	LIC	ASTORIA, OR	BLANK0000073365	33.0
	K29IA-D	D29	LD	LIC	CENTRALIA, ETC., WA	BLDTT20090618ABC	39.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4339.9 26,357		3534.7 23,212		3502.8 19,887		3497.4 19,887	0.15 0.00
Undesired			Total IX	Unique IX, before		Unique IX, after	
KJYY-LD D29 LD APP			5.4 0			5.4 0	
K28FP-D D28 LD LIC			28.3 3,325	28.3 3,325		28.3 3,325	
K29IA-D D29 LD LIC			3.5 0	3.5 0		3.5 0	

Interference to proposal scenario 1
7.46% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KJYY-LD	D29	LD	APP	PORTLAND, OR	BLANK0000150498	
Undesireds:	KEPB-TV	D29	DT	LIC	EUGENE, OR	BLEDT20050127AHY	171.0 km
	KOPB-TV	D29	LD	LIC	PORTLAND, OR	BLANK0000149856	26.8
	K29NO-D	D29	LD	LIC	THE DALLES, OR	BLANK0000068895	127.6
	K29IA-D	D29	LD	LIC	CENTRALIA, ETC., WA	BLDTT20090618ABC	118.1
	K29IB-D	D29	LD	LIC	GRAYS RIVER, ETC., WA	BLDTT20100511ACN	122.5
	KPDX	D30	DT	LIC	VANCOUVER, WA	BLANK0000107795	1.3
Service area		Terrain-limited		IX-free		Percent IX	
10419.3 2,157,785		9282.7 2,093,734		8579.1 1,937,479		7.58 7.46	
Undesired			Total IX	Unique IX		Prct Unique IX	
KEPB-TV D29 DT LIC			13.0 1,472	4.9 207		0.05 0.01	
KOPB-TV D29 LD LIC			106.9 4,657	58.8 1,321		0.63 0.06	
K29NO-D D29 LD LIC			0.5 0	0.5 0		0.01 0.00	
K29IA-D D29 LD LIC			0.2 0	0.0 0		0.00 0.00	
K29IB-D D29 LD LIC			13.6 29	4.4 25		0.05 0.00	
KPDX D30 DT LIC			630.8 154,638	576.8 150,672		6.21 7.20	

This application is believed to be complete and not require any waivers based on communication with FCC staff. The foregoing was prepared on behalf of SagamoreHill of Portland, LLC by Clarence M. Beverage of *Communications Technologies, Inc.*, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



Clarence M. Beverage
for Communications Technologies, Inc.
Medford, New Jersey
April 18, 2022

PREDICTED LONGLEY-RICE SIGNAL LEVELS
FROM TVStudy FOR KJYY-LD MINOR MOD TO LICENSE
PORTLAND, OREGON



