

Broadcast Engineering Services of Bonny Doon, Inc.

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Engineering Statement Minor Change to K260AK Klamath Falls, Oregon BLFT-20080925AEE

Pacific Cascade Communications Corporation (PCCC) requests a change to the location and effective radiated power for K260AK. The new site is 7.7 miles from the current licensed site of this translator.

An allocation study, attached to this engineering statement, reveals no conflicts with existing or proposed stations, except for KFXX Klamath Falls (BLH-20050902ABI). KJMD is 2nd adjacent to Ch 260, but the proposed 100DBU contour of this translator does not overlap any populated areas. The site itself is located on rural hilltop land, within private property, 2 miles from the closest cities or towns. The attached 100 dbu contour map shows the area in question. Based upon these mitigating factors, the applicant respectfully requests a waiver of C.F.R. 74.1024(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference.

The proposed antenna system is a Nicom BKG77, a circularly polarized non-directional single bay design. This antenna, mounted at 7 meters above ground, will produce a calculated worst-case RFR energy field of 102.9 microwatts per squared centimeter at a distance of 4 meters from the base of the tower support structure. This is just above 50% of the public limit, but behind a fence, which is already posted with RFR warning signage, and is therefore compliant with the FCC rules concerning RFR both on and adjacent to the proposed tower location. This site is fenced, on a hilltop behind numerous locked gates, and isolated on private property, and not readily accessible by the general public.

Respectfully submitted,



Donald E. Mussell Jr. NCE-CBT
Consulting Engineer
June 6, 2017

Broadcast Engineering Services of Bonny Doon, Inc.
Don Mussell NCE-CBT

K260AK Minor Change
Pacific Cascade Communications Corporation

REFERENCE	CH# 260D	- 99.9 MHz, Pwr= 0.14 kw, HAAT= 85.4 M, COR= 1407 M	DISPLAY DATES
42 08 43.0 N.		Average Protected F(50-50)= 10.38 km	DATA 06-02-17
121 46 15.0 W.		Omni-directional	SEARCH 06-06-17

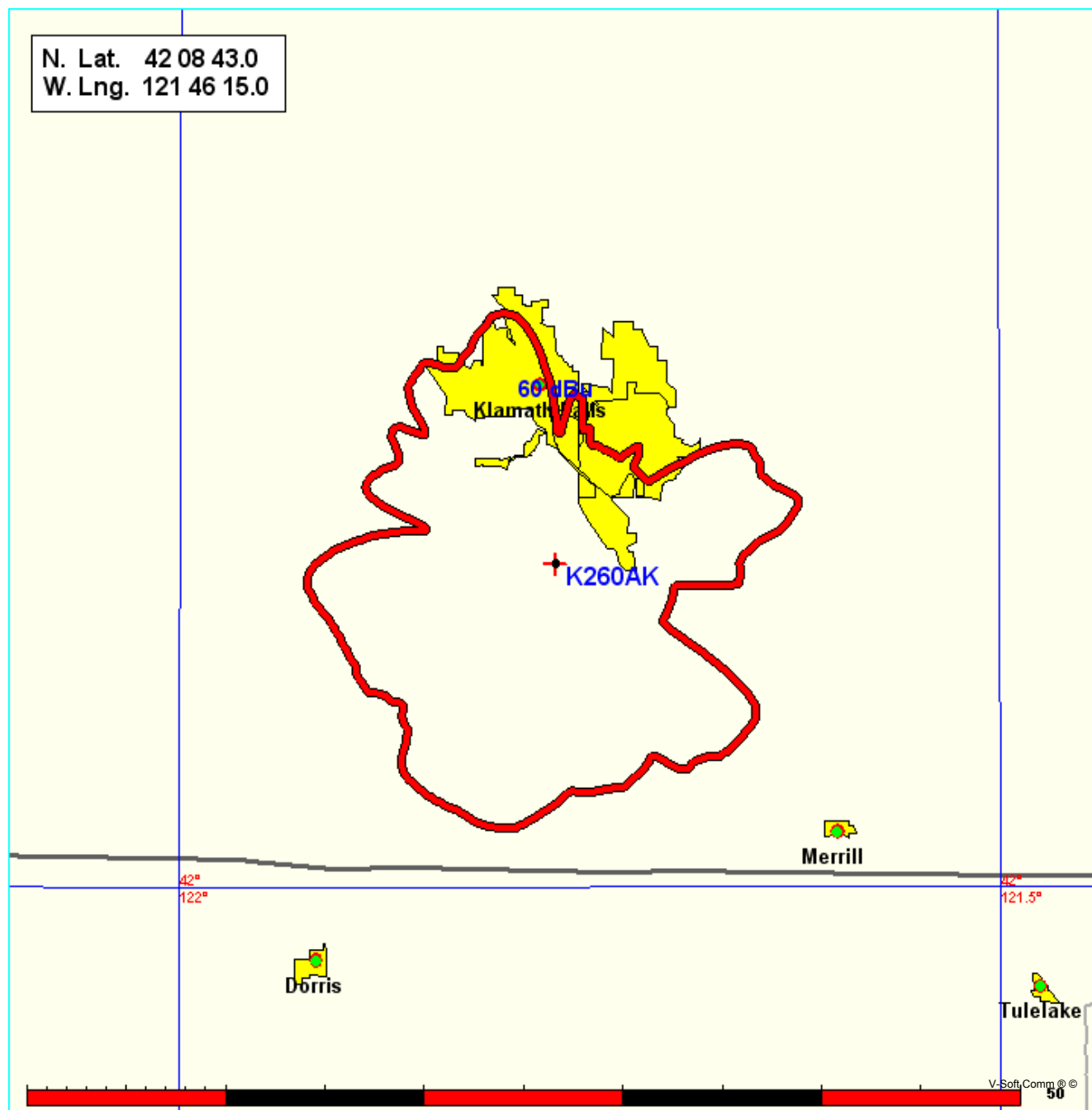
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
260D Klamath Falls	K260AK	LIC _V_ OR		114.4 294.5	12.93 BLFT20080925AEE	42 05 50.0 121 37 42.0	0.010 649	54.2 1982	14.8 Pacific Cascade Communicat	-51.9*	-22.3*
258C1 Klamath Falls	KFXB-FM	LIC _CX OR		344.3 164.3	8.11 BLH20050902ABI	42 12 56.0 121 47 51.0	60.000 112	6.4 1439	54.5 Basin Mediactive, LLC	-10.7*	-47.2*
261C1 Dunsmuir	KZRO	CP NCX CA		182.0 1.9	137.73 BPH20150807ABH	40 54 21.0 121 49 38.0	13.500 635	101.4 1728	65.9 Big Tree Communications	24.9	43.6
262C1 Gold Hill	KRWQ	LIC _CX OR		288.4 107.5	111.36 BLH20070614AAN	42 27 11.0 123 03 22.0	30.000 306	8.4 860	71.6 Bicoastal Media Licenses V	91.4	38.3

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

K260AK Minor Change
Pacific Cascade Communications Corporation

Coverage Study - FCC NGDC 30 Sec
06-06-2017

K260AK CH260 D , 0.14 kW, 85.4m HAAT, 1407.0m COR AMSL
Service Contour = 60 dBu. Population = 24,688

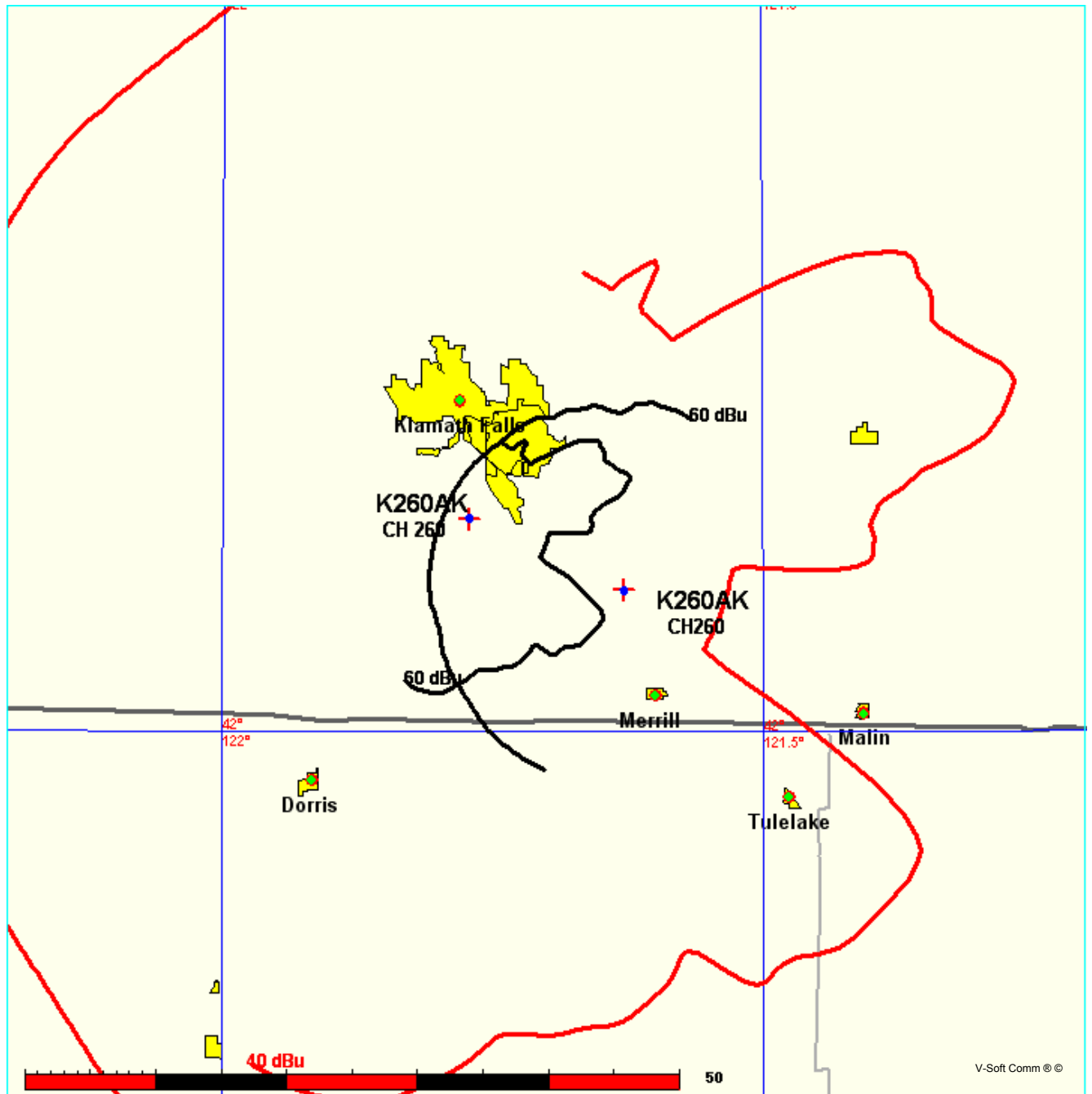


K260AK Minor Change
Pacific Cascade Communications Corporation

FMCommander Single Allocation Study - 06-06-2017 - FCC NGDC 30 Sec
K260AK's Overlaps (In= -51.93 km, Out= -22.3 km)

K260AK CH 260 D
Lat= 42 08 43.0, Lng= 121 46 15.0
0.14 kW 85.4 m HAAT, 1407 m COR
Prot.= 60 dBu, Intef.= 40 dBu

K260AK CH 260 D BLFT20080925AEE
Lat= 42 05 50.0, Lng= 121 37 42.0
0.01 kW 648.9 m HAAT, 1982 m COR
Prot.= 60 dBu, Intef.= 40 dBu

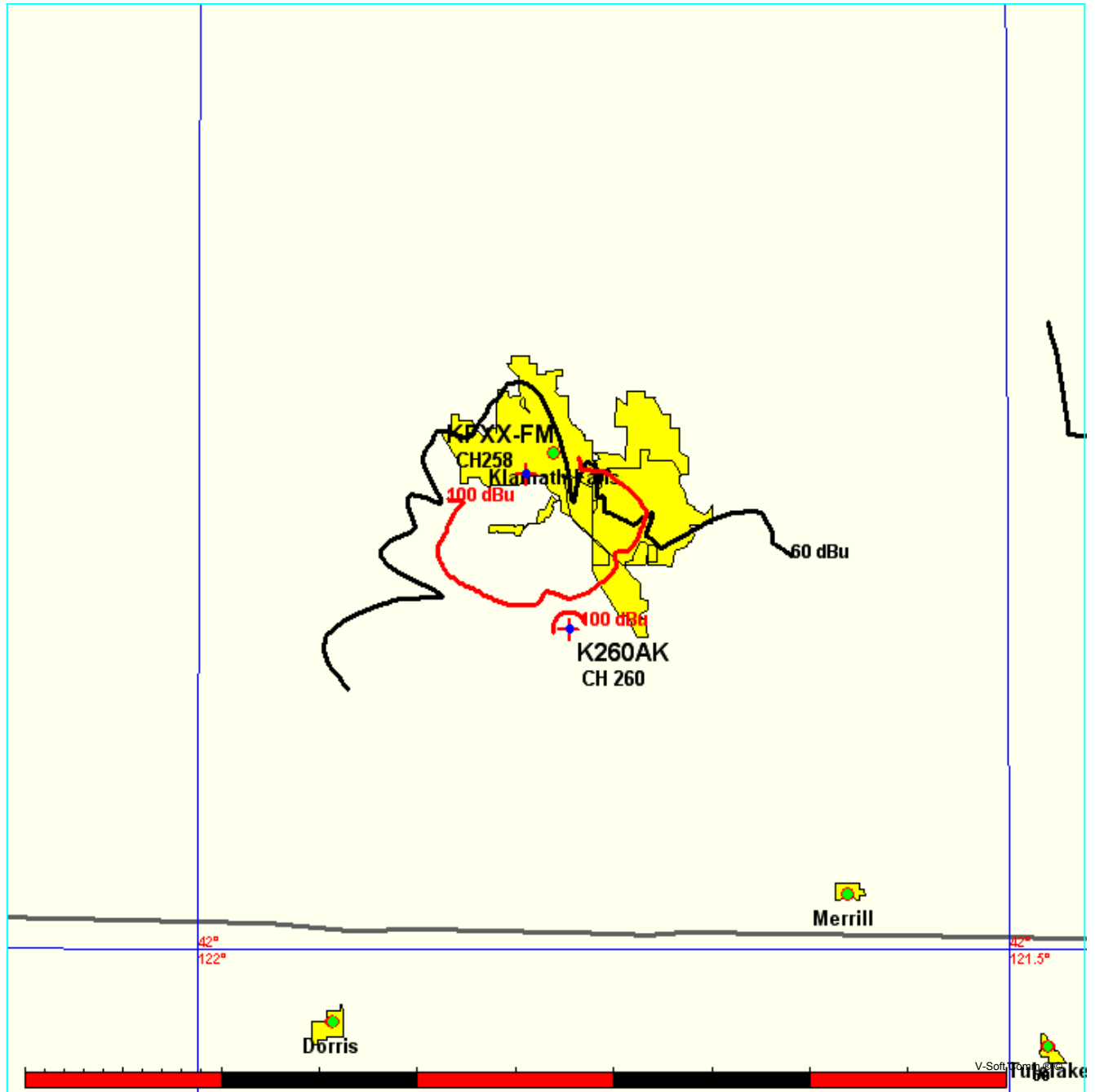


K260AK Minor Change
Pacific Cascade Communications Corporation

FMCommander Single Allocation Study - 06-06-2017 - FCC NGDC 30 Sec
K260AK's Overlaps (In= -10.72 km, Out= -47.23 km)

K260AK CH 260 D
Lat= 42 08 43.0, Lng= 121 46 15.0
0.14 kW 85.4 m HAAT, 1407 m COR
Prot.= 60 dBu, Intef.= 100 dBu

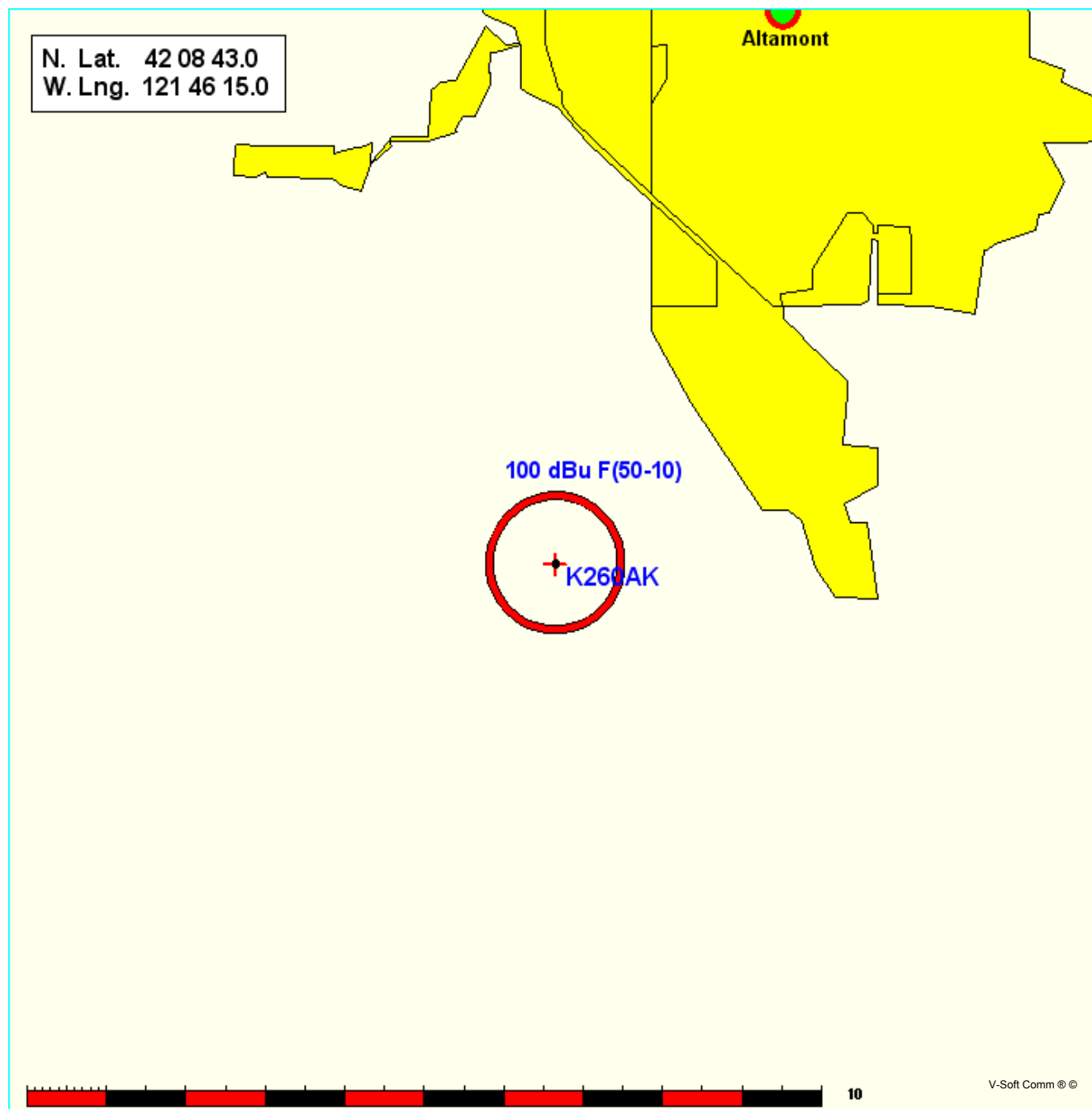
KFXX-FM CH 258 C1 BLH20050902ABI
Lat= 42 12 56.0, Lng= 121 47 51.0
60.0 kW 112 m HAAT, 1439 m COR
Prot.= 60 dBu, Intef.= 100 dBu



K260AK Minor Change
Pacific Cascade Communications Corporation

Coverage Study - FCC NGDC 30 Sec
06-06-2017

K260AK CH260 D , 0.14 kW, 85.4m HAAT, 1407.0m COR AMSL
Service Contour = 100 dBu. Population =

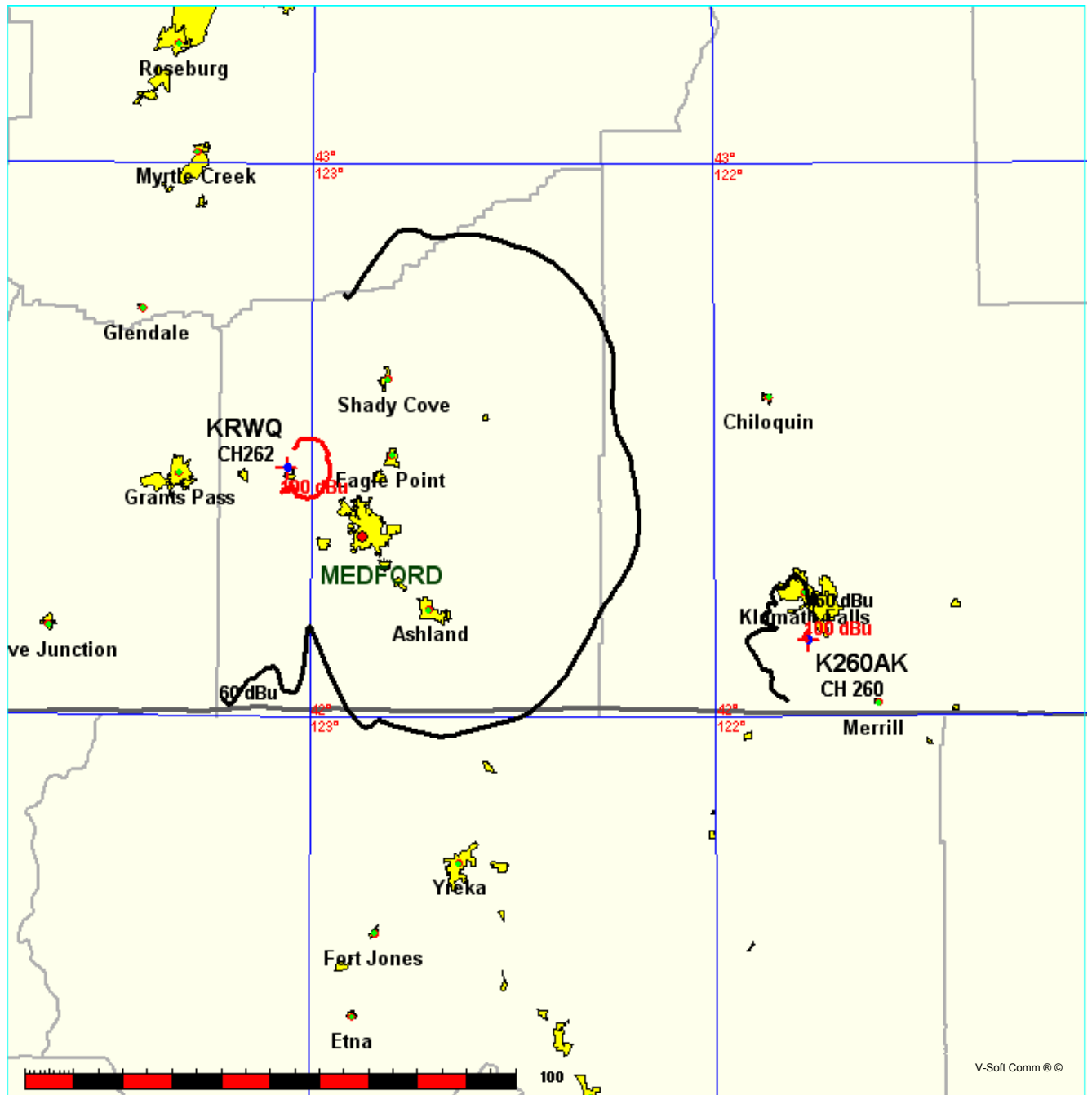


K260AK Minor Change
Pacific Cascade Communications Corporation

FMCommander Single Allocation Study - 06-06-2017 - FCC NGDC 30 Sec
K260AK's Overlaps (In= 91.37 km, Out= 38.29 km)

K260AK CH 260 D
Lat= 42 08 43.0, Lng= 121 46 15.0
0.14 kW 85.4 m HAAT, 1407 m COR
Prot.= 60 dBu, Intef.= 100 dBu

KRWQ CH 262 C1 BLH20070614AAN
Lat= 42 27 11.0, Lng= 123 03 22.0
30.0 kW 306 m HAAT, 860 m COR
Prot.= 60 dBu, Intef.= 100 dBu

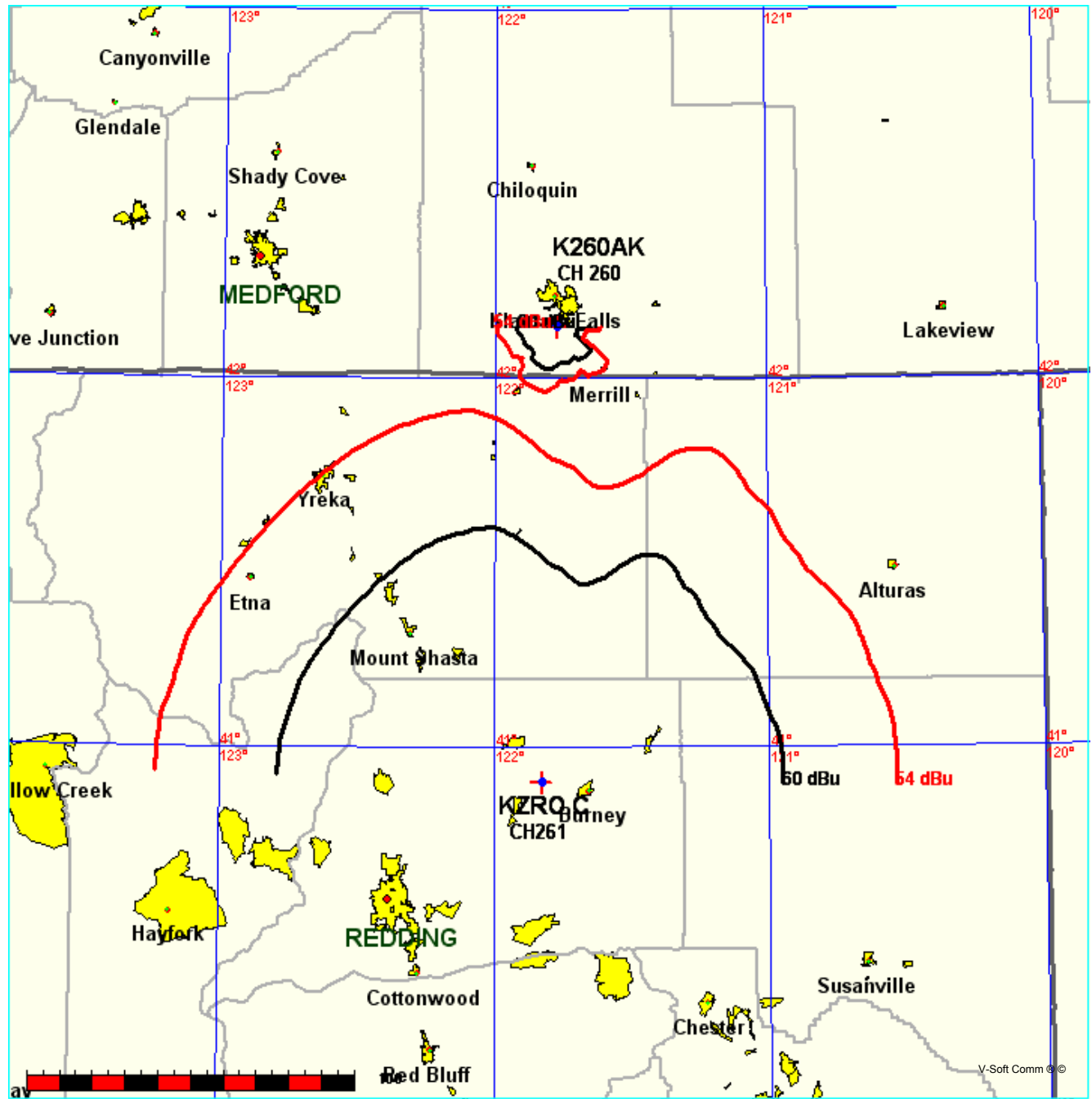


K260AK Minor Change
Pacific Cascade Communications Corporation

FMCommander Single Allocation Study - 06-06-2017 - FCC NGDC 30 Sec
K260AK's Overlaps (In= 24.86 km, Out= 43.62 km)

K260AK CH 260 D
Lat= 42 08 43.0, Lng= 121 46 15.0
0.14 kW 85.4 m HAAT, 1407 m COR
Prot.= 60 dBu, Intef.= 54 dBu

KZRO-C CH 261 C1 73.215 N BPH20150807ABH
Lat= 40 54 21.0, Lng= 121 49 38.0
13.5 kW 635 m HAAT, 1728 m COR
Prot.= 60 dBu, Intef.= 54 dBu



**AFFIDAVIT AND QUALIFICATIONS OF
DONALD E. MUSSELL JR.**

State of Hawaii)
Kilauea)
County of Kauai)

Donald E. Mussell Jr. affirms that he is a consulting radio and electronics engineer; that he is Certified as a Broadcast Engineer, Class 1, by the National Association of Radio and Telecommunications Engineers, Inc., License #E1-00619, issued in 1985;

That he is recognized as a Broadcast Technologist by the Society of Broadcast Engineers, License # 22301, and a member of the Society of Broadcast Engineers since 1980;

That he held a First Class Radiotelephone License from 1975 until 1985, when it was replaced by a lifetime General Class Radiotelephone license (PG-12-20588), issued by the Federal Communications Commission in January of 1985;

That he has submitted many applications to the Federal Communications Commission for broadcast and auxiliary broadcast construction permits and licenses, and that his experience in Radio and Television broadcast engineering extends over four decades;

That he declares, under penalty of perjury, that the foregoing engineering exhibits were prepared by him or under his direction and supervision; and that the statements contained therein are true and correct to the best of his belief and knowledge.

A handwritten signature in black ink, appearing to read 'Donald E. Mussell Jr.', with a stylized, cursive script.

Donald E. Mussell Jr. NCE-CBT
Consulting Engineer
June 6, 2017