

**Goldman Engineering Management
Auburn, CA**

AMENDMENT to APPLICATION to MODIFY LICENSE
TRANSLATOR K261DL, Bandon, OR

July, 2017

TECHNICAL STATEMENT

This technical statement including the attached exhibits have been prepared on behalf of Southern Oregon University, licensee of FM translator station, K261DL, Bandon, Oregon, Facility ID #143693, and is in support of an application for construction permit to relocate the existing K261DL facility (BLFT-20050623ABP) to a new location closer to Bandon, OR and operate as a translator for KZBY (FM), Coos Bay, OR. Facility ID number 88257.

Facilities Proposed

Location (NAD27)	43° 03' 52.6" N Latitude, 124° 22' 17.6" W Longitude
Channel	261D (100.1MHz)
Tower Overall AGL Height-	44m
Tower ASR	1035080 (Exhibit C)
Proposed Antenna	ERI 100A (non-directional)
Antenna AGL Height-	24m
Site AMSL Height-	135m
COR AMSL Height	159m
Maximum Radial HAAT (270deg)	157m
ERP per 74.1235(b)(2)	115w

MERP Calculation using FCC 30 second terrain database:

0° 115.9 m
30° 79.5 m
60° 40.3 m
90° 32.2 m
120° -27.3 m
150° -115.2 m
180° -48.5 m
210° 134.8 m
240° 153.4 m
270° 156.8 m
300° 155.5 m
330° 151.4 m

560 Perkins Way, Auburn CA 95603
(214) 395-5067

COMPLIANCE, 74.1233(a)(1), 74.1204(a), and 74.1204(d)

Exhibit A demonstrates compliance with 74.1233(a)(1) requiring any change in a translator's antenna location to provide 1mV/m service to some portion of its previously authorized 1mV/m service area. The primary station for K261DL will remain KZBY (FM), Coos Bay, OR. Facility ID number 88257

Exhibit B and the table below demonstrate compliance with 74.1204(a). Exhibit B shows overlap to the closest facilities.

ComStudy 2.2 search of channel 261 (100.1 MHz Class A) at 43-03-52.6 N, 124-22-17.6 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
K261DL	BANDON	OR 261 D	14.23	0.00	145.7	-57.53 dB MX to LIC
KJMX	REEDSPORT	OR 258 C3	71.39	42.00	17.1	14.28 dB Exh C
KLYF-LP	COQUILLE	OR 264 LP100	18.34	29.00	43.7	18.97 dB Exh C
KRWQ	GOLD HILL	OR 262 C1	127.32	133.00	121.9	22.38 dB
KDCB	COOS BAY	OR 208 A	33.89	10.00	18.0	23.9
KRKT-FM	ALBANY	OR 260 C0	196.79	152.00	26.3	31.58 dB
K259AE	WILLIAMS	OR 259 D	117.55	0.00	129.9	31.55 dB
KRWQ	GOLD HILL	OR 262 C1	127.32	133.00	121.9	35.38 dB
KMME	COTTAGE GROVE	OR 263 C3	133.05	42.00	53.9	35.05 dB
KSEP-LP	BROOKINGS	OR 260 LP100	112.47	56.00	175.5	37.40 dB

Environmental Exhibit

The proposed K261DL facility as proposed will utilize a non-directional antenna located on an existing registered tower (#1035080). The RF density near the tower was calculated using a worst case type 1 "ring and stub" antenna setting at 115 watts horizontal and vertical.

Using the FCC program “FM Model for Windows”, it was calculated that the proposed antenna contributes approximately 9.6 $\mu\text{W}/\text{cm}^2$ or 4.8% of the total allowable 200 $\mu\text{W}/\text{cm}^2$. The maximum was found to be 6 meters from the base of the tower.

There are no other non-excluded RF sources on the tower.

Based upon the above calculation, the proposed K261DL will be compliant with public exposure requirements and is excluded from further environmental review under §1.1306 of the FCC rules and regulations.

Respectfully Submitted

A handwritten signature in cursive script that reads "Bert Goldman".

Bert Goldman
Goldman Engineering Mgmt.
560 PerkinsWay
Auburn, CA 95603
(214) 395-5067
bert@bgoldman.net

EXHIBIT A- 74.1233(a)(1) Compliance

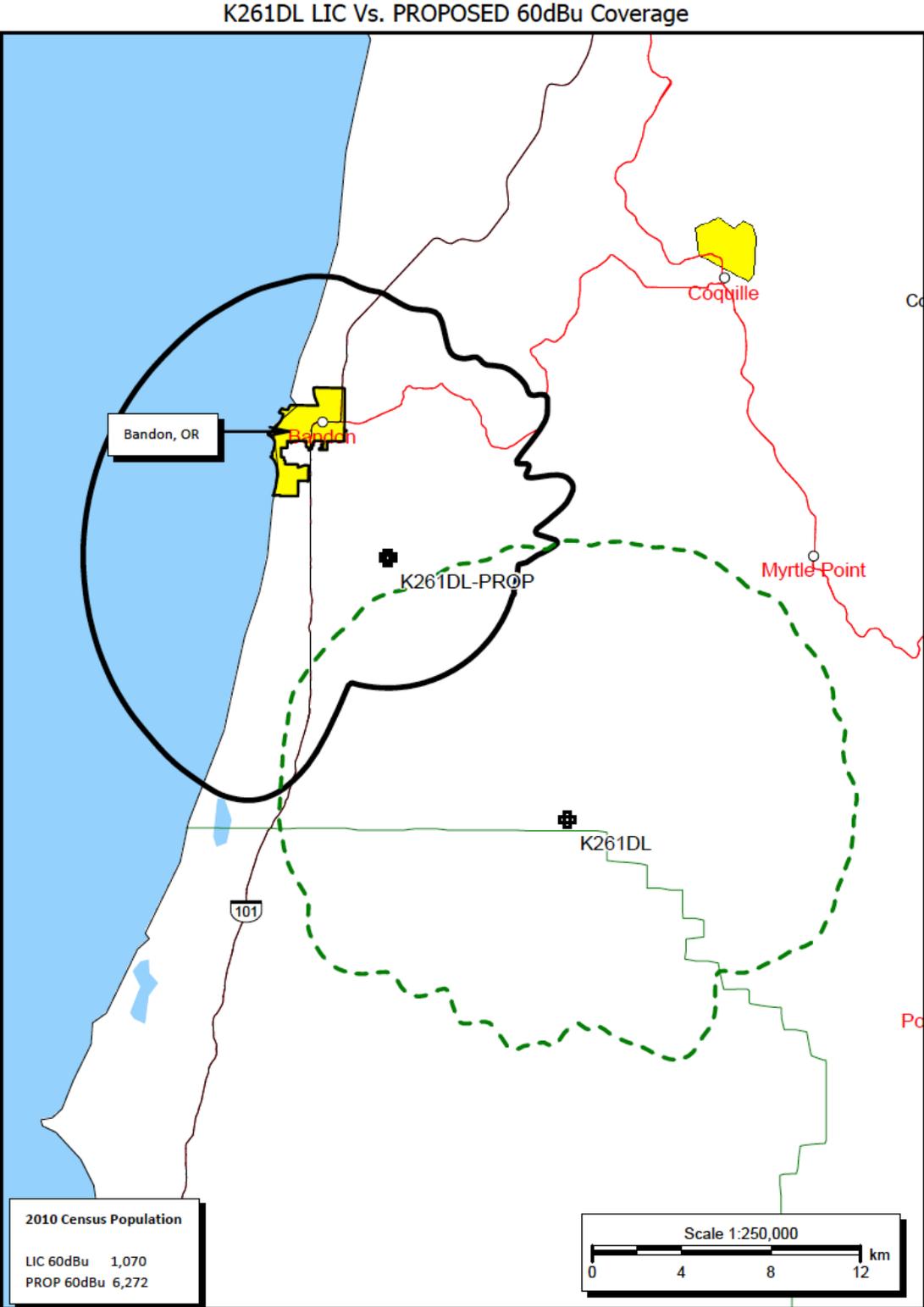


EXHIBIT B- Proposed K261DL Contour Protection

K261DL (261) PROPOSED Contours to KJMX (FM) (258), KLYF-LP (264)

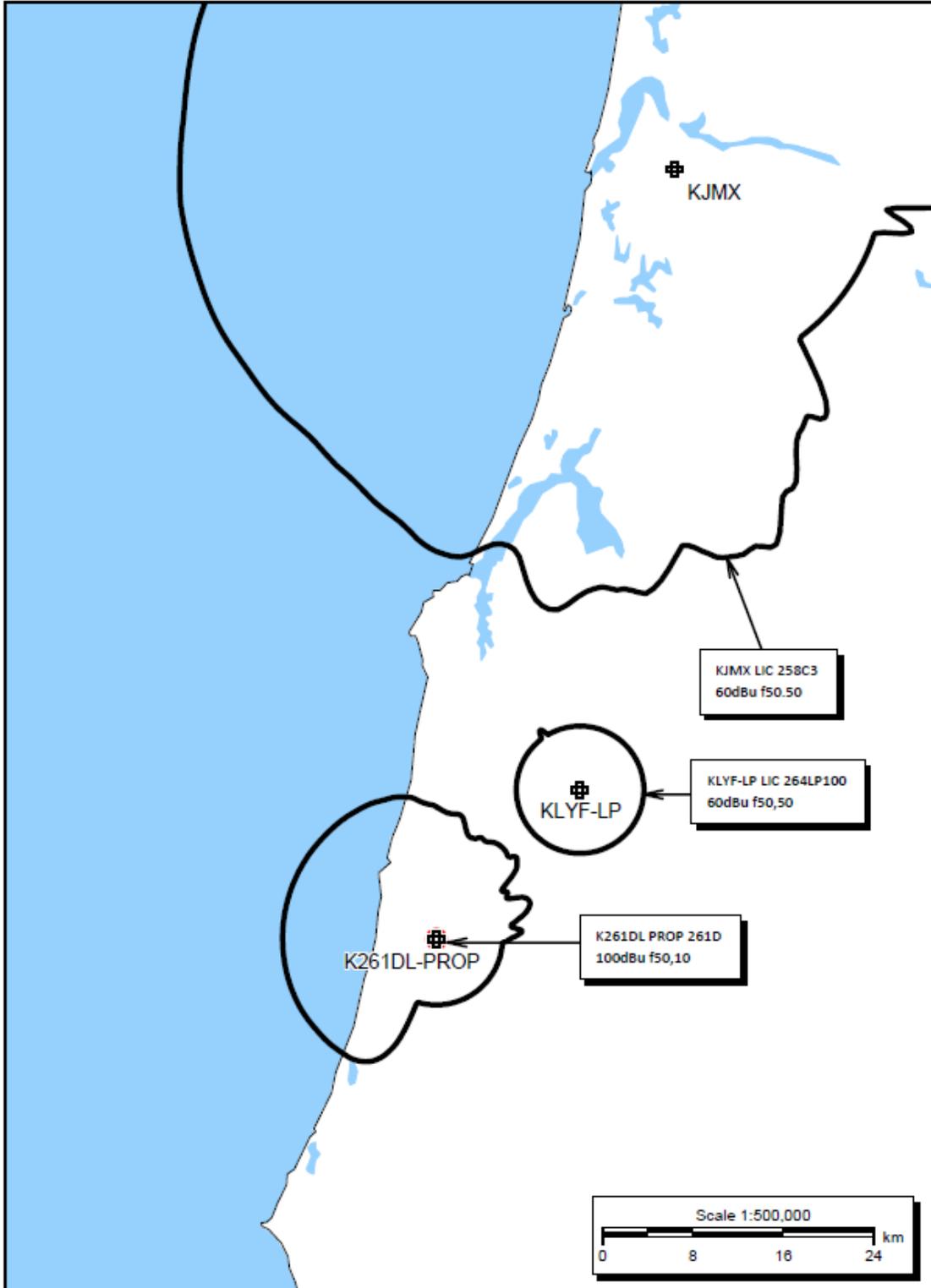


EXHIBIT C- ASR

Registration 1035080

[Map Registration](#)

Registration Detail

Reg Number	1035080	Status	Constructed
File Number	A0041487	Constructed	11/08/1994
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	43-03-52.0 N 124-22-22.0 W	Address	3.75 MI NW
City, State	BANDON , OR		
Zip	97411	County	COOS
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
135.0	43.8
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
178.8	27.2

Painting and Lighting Specifications

FAA Chapters 4, 5, 13
Paint and Light in Accordance with FAA Circular Number 70/7460-1H

FAA Notification

FAA Study	94-ANM-0536-OE	FAA Issue Date	06/30/1994
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Owner & Contact Information

FRN	0001801307	Owner Entity Type	
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Owner

LITCHFIELD COUNTY CELLULAR INC DBA = RAMCELL OF OREGON	P: (541)672-1623
Attention To: KEITH PETERSON	F:
1740 NW GOETZ	E:
ROSEBURG , OR 97470	

Contact

P:
F:
E:

Last Action Status

Status	Constructed	Received	11/26/1997
Purpose	New	Entered	12/04/1997
Mode	Mail In (Manual)		