

**K221FC Minor Modification  
Redmond, OR Channel 219D  
Allocation Study  
May 2006**

The attached spacing study shows the spacing between the proposed translator site and the location of cochannel and adjacent channel stations and proposals. This study was made with the Commission's Class A spacing requirements, and individual situations were examined to determine the lack of prohibited contour overlap per the requirements of §74.1204 of the Rules. The attached allocation study map demonstrates compliance with the Commission's Rules for protection of FM broadcast stations and FM translators as outlined in §74.1204.

The proposed transmitter site is located within the 60 dBu contour of second-adjacent-channel station KOAB-FM 217C2 Bend (license and CP):

The proposed transmitter site is located 42 kilometers from the KOAB-FM license facility at 26 degrees True. KOAB-FM operates with 25 kW ERP at 307 meters HAAT along the 26 degree radial, placing a 68 dBu contour at the proposed site. Therefore, the appropriate interfering contour from the translator is  $68 + 40 = 108$  dBu. The free-space 108 dBu contour extends 88 meters from the proposed antenna, and has been plotted on the attached 7.5 minute topographic map. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to the KOAB-FM license.

The proposed transmitter site is located 42 kilometers from the KOAB-FM CP facility at 26 degrees True. KOAB-FM operates with 25 kW ERP at 330 meters HAAT along the 26 degree radial, placing a 68.9 dBu contour at the proposed site. Therefore, the appropriate interfering contour from the translator is  $68.9 + 40 = 108.9$  dBu. The free-space 108.9 dBu contour extends 80 meters from the proposed antenna, and has been plotted on the attached 7.5 minute topographic map. There is no population within this contour. Therefore, the proposed facility is believed to satisfy the requirements of §74.1204(d) with respect to the KOAB-FM construction permit.

§73.207 of the Commission's Rules regarding spacing restrictions to stations which are 53 or 54 channels removed does not apply to the instant application, which specifies an ERP of less than 100 Watts.

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SEARCH PARAMETERS

FM Database Date: 060421

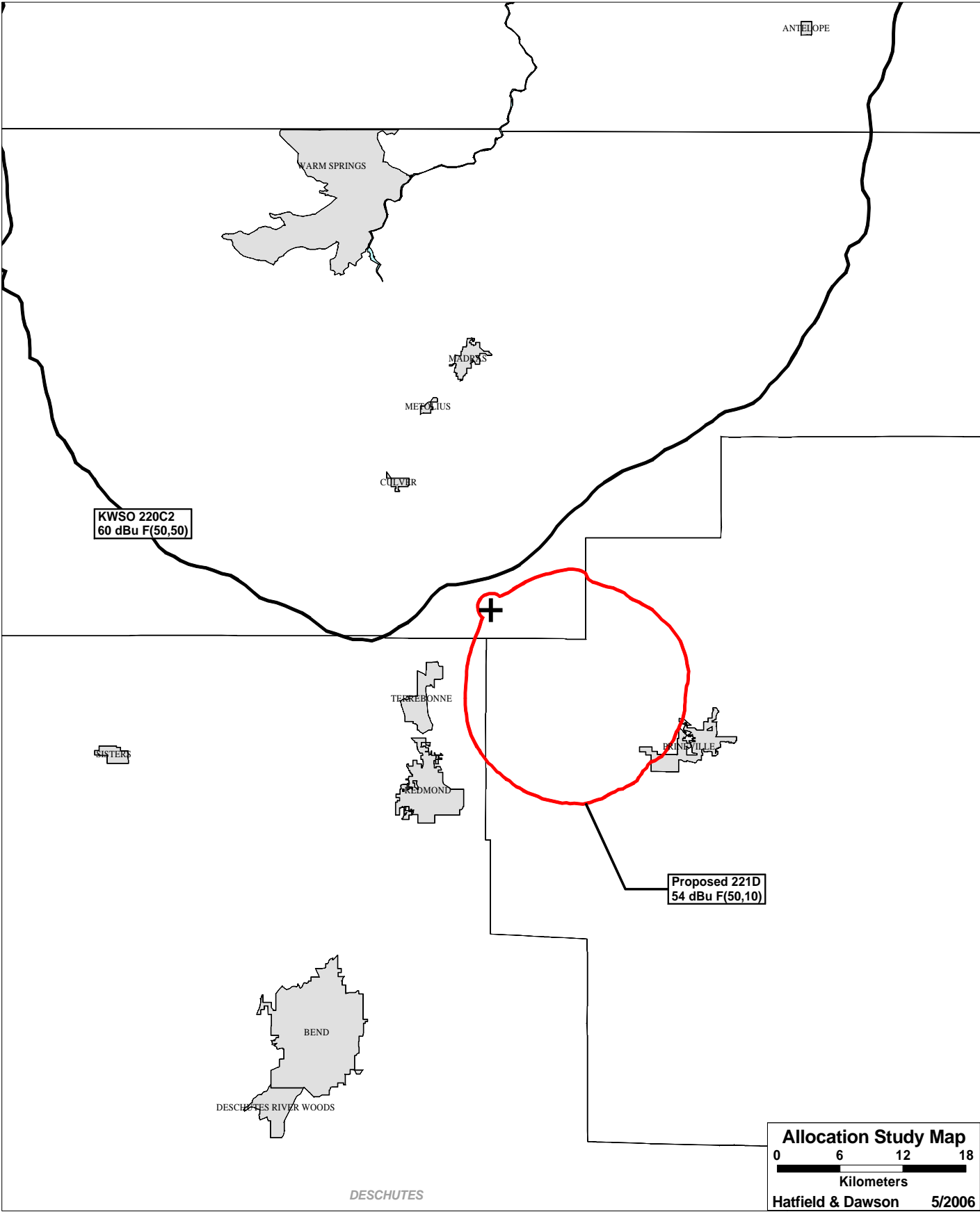
Channel: 219A 91.7 MHz  
 Latitude: 44 25 2  
 Longitude: 121 6 1  
 Safety Zone: 32 km  
 Job Title: REDMOND 219 TRANS

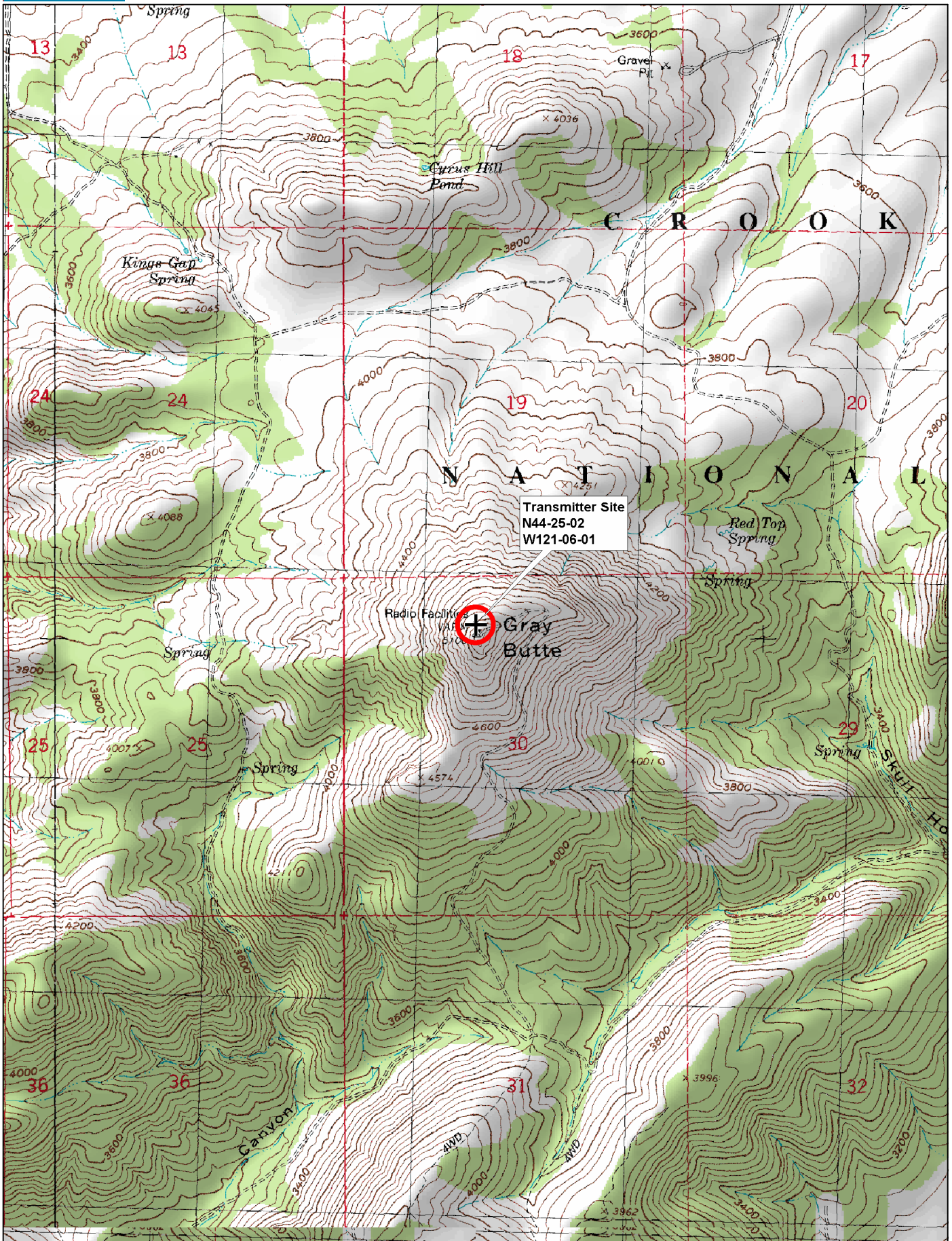
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Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KOAB-FM CP	BEND OR		217C2 91.3	25.000 207.0	44-04-41 121-19-57	206.2	42.00 -13.00	55 SHORT
	BEND OR	BPED-041006AEF						
KOAB-FM LIC	BEND OR		217C2 91.3	25.000 184.0	44-04-41 121-19-57	206.2	42.00 -13.00	55 SHORT
	BEND OR	BLED-860128KC						
KOPB-FM LIC	PORTLAND OR		218C0 91.5	73.000 470.0	45-31-21 122-44-45	314.1	178.72 26.72	152 CLEAR
	PORTLAND OR	BLED-030213AAI						
K219BG LIC	SILVER LAKE, ETC. OR		219D 91.7	0.052 DA 403.0	43-09-55 120-52-50	172.7	140.22 0.00	0 TRANS
	SILVER LAKE, ETC. OR	BLFT-891011TD						
KWSO LIC	WARM SPRINGS OR		220C2 91.9	3.000 315.0	44-50-24 121-13-56	347.5	48.13 -57.87	106 SHORT
	WARM SPRINGS OR	BLED-860602KD						
K221EY CP	BEND OR		221D 92.1	0.028 299.0	44-04-40 121-19-49	206.0	41.95 0.00	0 TRANS
	BEND OR	BNPFT-030829AAH						
K224AT CP	REDMOND OR		221D 92.1	0.010 DA 703.0	44-25-02 121-06-01	0.0	0.00 0.00	0 TRANS
	REDMOND OR	BPFT-050921AIJ						

NOTE: FACILITY BEING MODIFIED BY THE INSTANT APPLICATION

44444 END OF FM SPACING STUDY FOR CHANNEL 219 44444





**K221FC Minor Modification  
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NIER Study  
May 2006**

**Facilities Proposed**

The proposed operation will be on Channel 219D (91.7MHz) with a maximum lobe effective radiated power of 10 Watts. Operation is proposed with an antenna to be mounted on an existing pole atop Gray Butte.

The proposed antenna support structure will not exceed 60.96 meters (200 feet) above ground and does not require notification to the Federal Aviation Administration. Therefore, this structure does not require an Antenna Structure Registration Number.

**NIER Study**

Section 1.1307(b)(1) of the Commission's Rules exempts FM translators and boosters operating with an effective radiated power of 100 Watts or less from the requirement to submit an Environmental Assessment to determine compliance with FCC specified guidelines for human exposure to radiofrequency radiation. The applicant proposes operation with a maximum lobe effective radiated power of 10 Watts and therefore no calculations have been submitted. Nonetheless, public access to the site is restricted and all station personnel and contractors are required to follow appropriate safety procedures, including turning off the transmitter if necessary, prior to commencing work on the antenna tower.