

**K224AT Minor Modification  
Redmond, OR Channel 221D  
Allocation Study  
September 2005**

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.

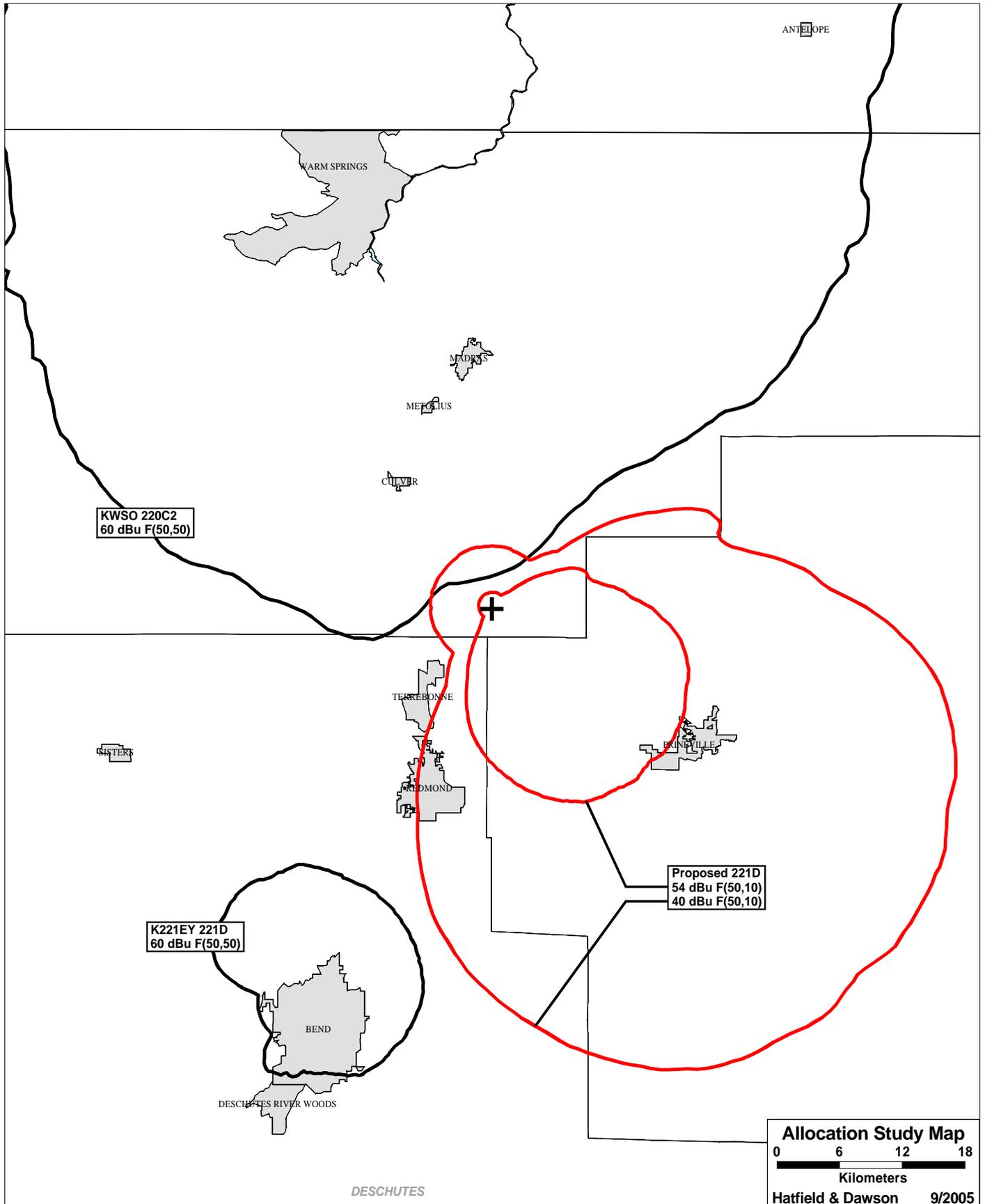
§73.207 of the Commission's Rules regarding spacing restrictions to stations which are 53 or 54 channels removed does not apply to the instant application, which specifies an ERP of less than 100 Watts.

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SEARCH PARAMETERS                               FM Database Date: 050915
Channel: 221A      92.1 MHz                      Page 1
Latitude: 44 25 2
Longitude: 121 6 1
Safety Zone: 32 km
Job Title: GRAY BUTTE 221D 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)
KWSO LIC	WARM SPRINGS OR	SPRINGS BLED-860602KD	220C2 91.9	3.000 315.0	44-50-24 121-13-56	347.5	48.13 -57.87	106 SHORT
K221EY CP	BEND OR	BNPFT-030829AAH	221D 92.1	0.028 299.0	44-04-40 121-19-49	206.0	41.95 0.00	0 TRANS
KAVE LIC	OAKRIDGE OR	BMLE-920207KA	221A 92.1	0.580 -253.0	43-44-34 122-26-03	235.3 SS	130.51 15.51	115 CLEAR
KGON LIC	PORTLAND OR	BLH-900820KF	222C 92.3	100.000 386.0	45-29-20 122-41-40	314.1	173.23 8.23	165 CLOSE
K224AT LIC	REDMOND OR	BLFT-830505MG	224D 92.7	0.023 635.0	44-25-02 121-06-01	0.0	0.00 0.00	0 TRANS
VAC	SUNRIVER OR	-	224C2 92.7	0.000 0.0	43-52-00 121-30-00	207.7	69.03 14.03	55 CLEAR
NEW APP	SUNRIVER OR	BSFH-050812ASR	224C2 92.7	0.000 0.0	44-04-40 121-19-49	206.0	41.95 -13.05	55 SHORT
NEW APP	SUNRIVER OR	BSFH-050812ASG	224C2 92.7	0.000 0.0	43-58-51 121-21-27	203.0	52.67 -2.33	55 SHORT
KSJJ LIC	REDMOND OR	BMLH-040702AFK	275C1 102.9	100.000 270.0	44-02-49 121-31-50	219.9	53.62 31.62	22 CLEAR

44444 END OF FM SPACING STUDY FOR CHANNEL 221 44444



KWSO 220C2  
60 dBu F(50,50)

K221EY 221D  
60 dBu F(50,50)

Proposed 221D  
54 dBu F(50,10)  
40 dBu F(50,10)

**Allocation Study Map**  
0 6 12 18  
Kilometers  
Hatfield & Dawson 9/2005

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**Facilities Proposed**

The proposed operation will be on Channel 221D (92.1MHz) 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.