

Channel Study

REFERENCE		CH# 300D - 107.9 MHz, Pwr= 0.05 kW, HAAT=165.0M, COR= 431 M								DISPLAY DATES	
46 18 43 N.		Average Protected F(50-50)= 11.2 km								DATA	08-26-06
120 04 53 W.		Ave. F(50-10) 40 dBu= 37.3 54 dBu= 16.2 80 dBu= 3.2 100 dBu= .5								SEARCH	09-07-06
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
300D Sunnyside	K300AP	CP WA	C 0.0	0.00 BNPFT20030811AAG	46 18 43 120 04 53	0.050 68	438 23.7	7.1 Educational Media Foundati	-30.38*	-29.57*	
297C Yakima	KFFM	LIC WA	C 326.7	43.79 BLH19990915AVQ	46 38 26 120 23 45	100.000 554	994 13.1	89.9 Citicasters Licenses, L.p.	20.19	-46.57*	
300C2 Goldendale	RADD	ADD WA		222.6 94.95 42.0	45 40 53 120 54 30	50.000 -35	522 115.0	26.5 Portland Broadcasting Llc	-32.28	28.00	
300A Moro	RADD	ADD OR		207.0 100.62 26.5	45 30 15 120 40 00	6.000 169	639 96.8	36.2 Triple Bogey, Mcc Radio Ll	-8.40	24.11	
299C1 Pendleton	KUMAFM	LIC OR	C 124.1	141.35 BLH20050711ABV	45 35 27 118 34 47	75.000 615	1104 132.6	89.5 Round-up Radio, Inc.	-3.39	33.87	
298D Othello	K298AQ	CP WA	C 50.3	79.47 BNPFT20030829BDV	46 45 55 119 16 49	0.030 269	511 0.4	12.6 Lyle Dodge	69.64	66.41	

ERP and HAAT on direct-line with reference station.

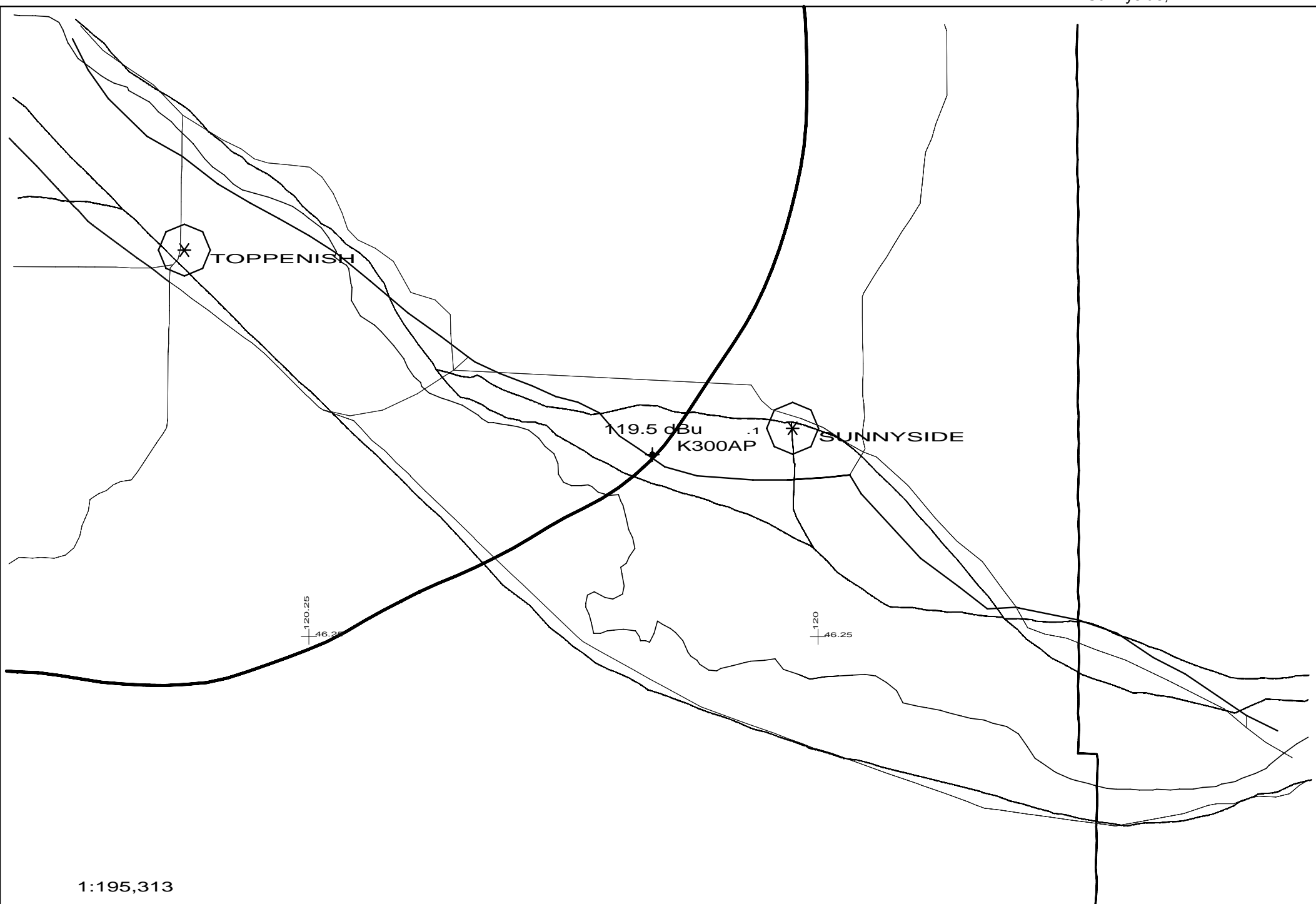
***affixed to 'IN' or 'Out' values = site inside protected contour.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KFFM, channel 297C, Yakima, WA. The predicted F(50-50) field strength of KFFM at the proposed translator site is 79.5 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 119.5 dBu. This interfering contour extends approximately 52.4 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 72 meter level on an 80 meter tower).

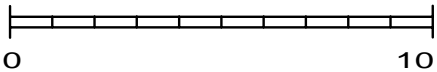
To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12B), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 52.4 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.



1:195,313

Scale in km

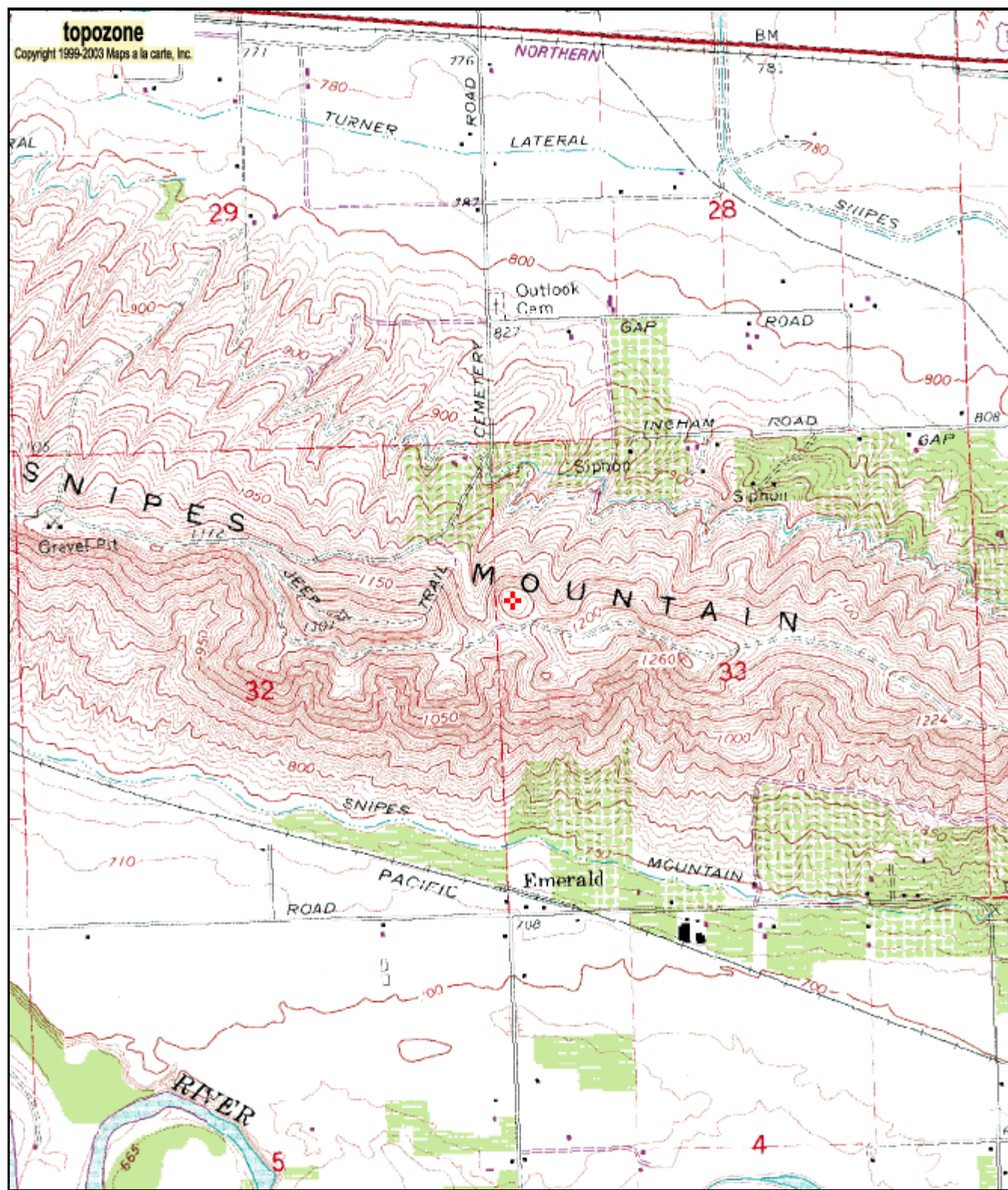


K300AP 300D .05kW 431M AMSL

N. Lat. 46 18 43 W. Lng. 120 04 53

K300AP vs. KFFM

EMF - 09/06



0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

46° 18' 43"N, 120° 04' 53"W (NAD27)
Elevation 1,179.8 ft / 359.6 m (USGS NED)
USGS Sunnyside (WA) Quadrangle
Projection is UTM Zone 10 NAD83 Datum

* M
G
M=17.268
G=2.111