KOIT(FM)

APPLICATION FOR NEW ON-CHANNEL BOOSTER

This technical statement and attached exhibits have been prepared on behalf of Bonneville International Corporation, Licensee of station KOIT(FM), Channel 243B, San Francisco, CA, Facility identifier 6380 for an on-channel FM booster to cover the community of Pleasanton, CA which is terrain blocked to the primary KOIT(FM) signal.

FACILITIES REQUESTED

The requested facility will operate within the Non-Grandfathered 54dBu contour of KOIT(FM). A map showing the coverage of this booster in relationship to the KOIT(FM) signal is shown in Exhibit A. Although KOIT(FM) operates with a grandfathered power level of 24kW, for the purposes of this allocation, KOIT(FM) was evaluated with a Non-Grandfathered ERP of 4.1kW. The antenna proposed is a Jampro dual element, single level log-periodic antenna rotated 45 degrees from vertical to achieve slant H+V polarization. The Azimuth Pattern is attached as Exhibit C.

TECHNICAL SPECIFICATIONS

Booster Location:	Pleasanton, CA
ASR	ASR 1222544 (Exhibit D)
Geographic Coordinates (NAD83):	37˚44'20" N, 121˚ 59' 42.5" W
Channel:	243 (96.5 MHz)
Effective Radiated Power:	62 W (H+V)
Antenna Type, Pattern:	Jampro JAVA 1-1 (2) (Exhibit C)
Antenna Orientation:	120˚ True
Site Height AMSL	562.4m
Tower OAGL	52m
Antenna Height :	
Above ground:	40m
Above mean sea level:	602.4m

As shown in Exhibit A the 54dBu contour of the booster will fall inside the Non-Grandfathered 54dBu contour of KOIT(FM) (243B) and is thus compliant with 74.1232(f). As shown in Exhibit B, the proposed booster will provide interference protection to all first adjacent channel stations because the first adjacent interfering contours are within the KOIT(FM) interfering contours. KOIT(FM) is not short-spaced to any first adjacent stations. The proposed KOIT(FM) booster has an IF relationship with KLVS, 297B. The proposed booster must operate at least 15km from KLVS, however, it's only 10.4km. Since the booster will operate with 62 watts, however, it's well below the 99 watt maximum for IF short-spacing.

ENVIRONMENTAL CONSIDERATIONS

The Booster will be attached at the 40m height on an existing 52m tower. Because there will be no modifications to this tower it is exempt from environmental processing under CFR Section 1.1306.

The proposed KOIT(FM) booster antenna was evaluated for RF energy at ground level. The closest antenna type for analysis is an EPA Type 2 antenna. As such, the estimated RF at 2m AGL is expected to be 0.79μW/cm² , 0.4 v% of the maximum allowable 200μW/cm² NIER. Because the NIER level is so low, it is believed that this facility will be compliant under 47CFR 1.1306 and 1.1307.

The applicant agrees to reduce power or cease operations when it becomes necessary if workers are near the antenna in order to ensure that they will not be exposed to levels of radio frequency electromagnetic radiation that exceed FCC guidelines.

CERTIFICATION

The undersigned hereby certifies that the foregoing statement and associated attachments were prepared by him or under his direct supervision, and that they are true and correct to the best of his knowledge and belief.

Bertram S. Goldman
Goldman Engineering Management

EXHIBIT A- 74.1232(f) Compliance

Proposed KOIT Pleasanton, CA Booster (62w)

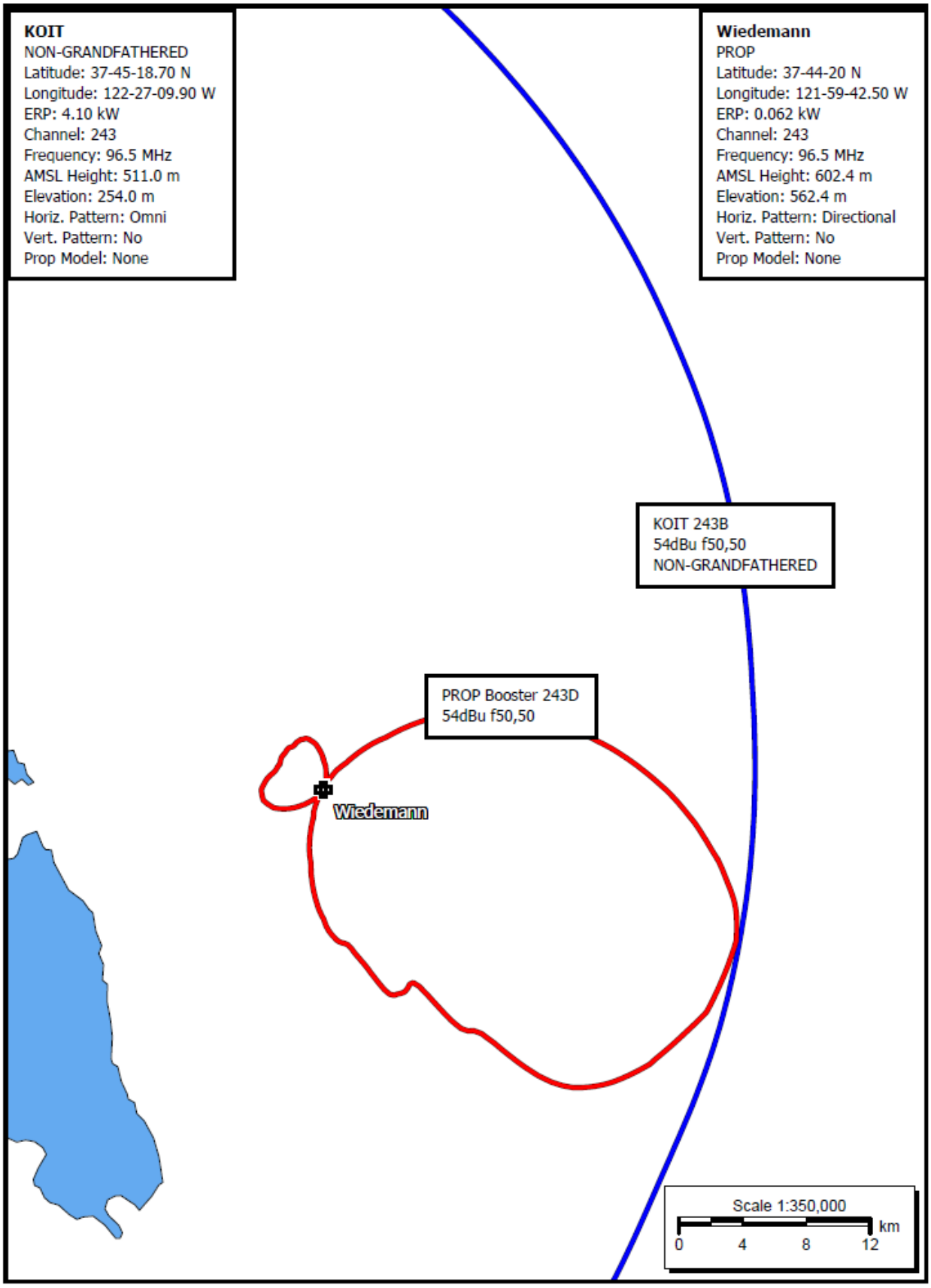


EXHIBIT B- First- Adjacent Protection

Proposed KOIT Pleasanton, CA Booster (62w)

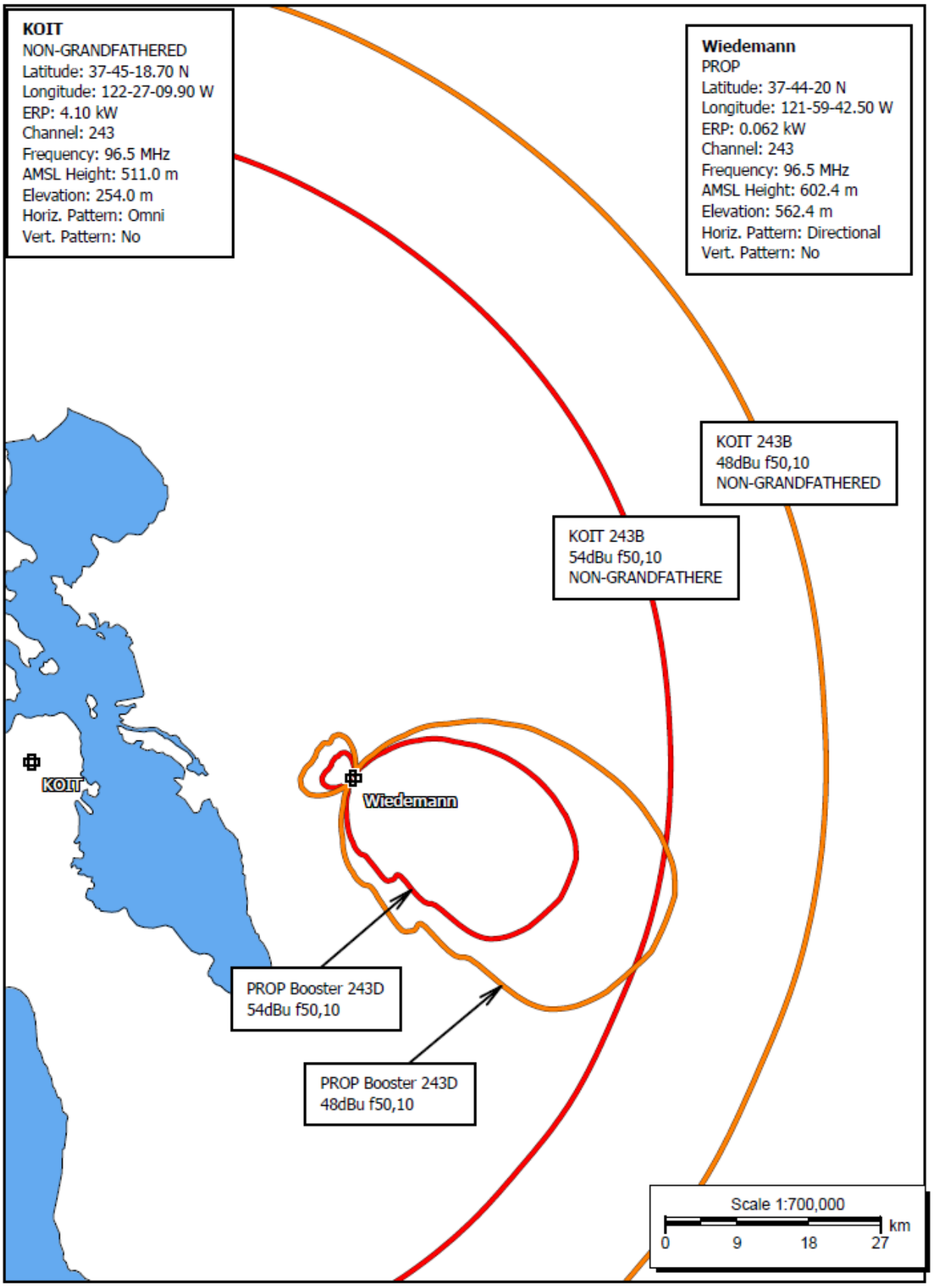
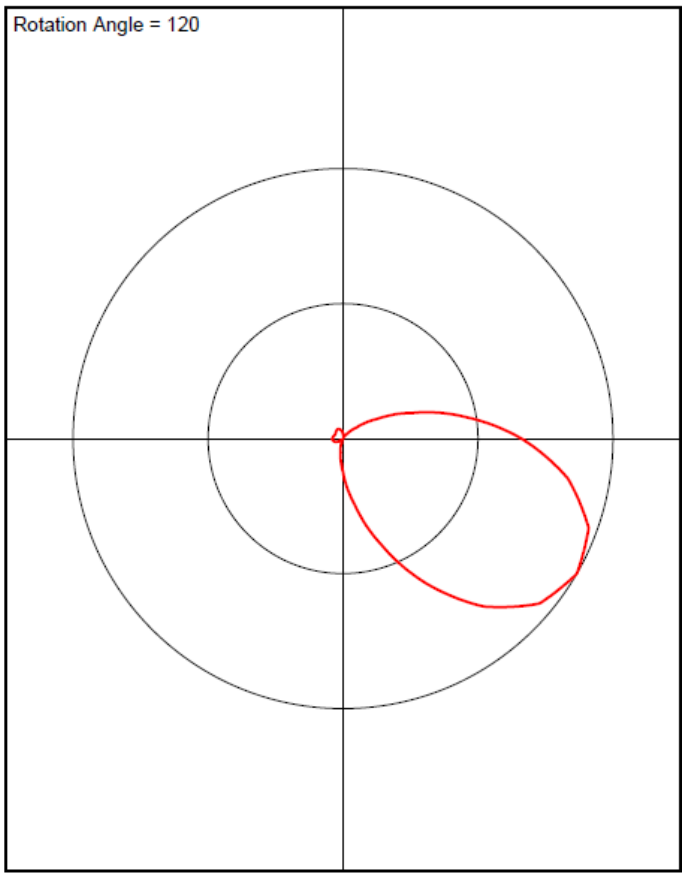


EXHIBIT C- Antenna Pattern

Pleasanton Antenna Pattern

Post-Rotation Antenna Pattern....



Azimuth (deg)	Relative Field
0.0	0.018
5.0	0.013
10.0	0.008
15.0	0.006
20.0	0.004
25.0	0.006
30.0	0.008
35.0	0.015
40.0	0.022
45.0	0.042
50.0	0.062
55.0	0.1035
60.0	0.145
65.0	0.212
70.0	0.279
75.0	0.3695
80.0	0.46
85.0	0.5605
90.0	0.661
95.0	0.753
100.0	0.845
105.0	0.9065
110.0	0.968
115.0	0.984
120.0	1.0
125.0	0.975
130.0	0.95
135.0	0.881
140.0	0.812
145.0	0.7165
150.0	0.621
155.0	0.521
160.0	0.421
165.0	0.3345
170.0	0.248
175.0	0.186
180.0	0.124
185.0	0.0875
190.0	0.051
195.0	0.0345
200.0	0.018
205.0	0.0125
210.0	0.007
215.0	0.0055
220.0	0.004
225.0	0.0075
230.0	0.011
235.0	0.0165
240.0	0.022
245.0	0.0275
250.0	0.033
255.0	0.036
260.0	0.039
265.0	0.0395
270.0	0.04
275.0	0.0385
280.0	0.037
285.0	0.0355
290.0	0.034
295.0	0.0335
300.0	0.033
305.0	0.034
310.0	0.035
315.0	0.0365
320.0	0.038
325.0	0.039
330.0	0.04
335.0	0.0385
340.0	0.037
345.0	0.033
350.0	0.029
355.0	0.0235

EXHIBIT D- ASR REGISTRATION

Registration 1222544

Map Registration

Registration Detail			
Reg Number	1222544	Status	Constructed
File Number	A1020763	Constructed	06/30/2000
EMI	No	Dismantled	
NEPA	No		

Antenna Structure			
Structure Type	TOWER - Free standing or Guyed Structure used for Commu		
Location (in NAD83 Coordinates)			
Lat/Long	37-44-20.0 N 121-59-42.5 W	Address	2305 Norris Canyon Road
City, State	San Ramon , CA		
Zip	94583	County	CONTRA COSTA
Center of AM Array		Position of Tower in Array	

Heights (meters)	
Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
562.4	52.1
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
614.5	47.2

Painting and Lighting Specifications
None

FAA Notification			
FAA Study	2009-AWP-1110-OE	FAA Issue Date	12/18/2009

Owner & Contact Information			
FRN	0006156111	Owner Entity Type	Limited Liability Company

Owner	
Pinnacle Towers LLC 2000 Corporate Drive Canonsburg , PA 15317	P: (724)416-2000 F: E: Regulatory.Department@Crowncastle.com

Contact	
Snyder , Don 2000 Corporate Drive Canonsburg , PA 15317	P: (724)416-2470 F: E: Regulatory.Department@Crowncastle.com

Last Action Status			
Status	Constructed	Received	05/06/2016
Purpose	Admin Update	Entered	05/06/2016
Mode	Interactive		

Related Applications	
05/06/2016	A1020763 - Admin Update (AU)
05/03/2015	A0962555 - Admin Update (AU)
01/08/2010	A0661502 - Modification (MD)
Related applications (8)	

Comments
Comments
None

History	
Date	**Event**
05/07/2016	Registration Printed
05/06/2016	ASR Application receipt email sent: Tower email
05/06/2016	Administrative Update Received
All History (18)	

Pleadings			
Pleading Type	**Filer Name**	**Description**	**Date Entered**
None			