

**Goldman Engineering Management
Auburn, CA**

KBLX-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 KBLX-FM, Channel 275B, Berkeley, CA, Facility identifier 28670 for an on-channel FM booster to cover the community of Orinda, CA which is terrain blocked to the primary KBLX-FM signal.

FACILITIES REQUESTED

The requested facility will operate within the 54dBu contour of KBLX-FM. A map showing the coverage of this booster in relationship to the KBLX-FM signal is shown in Exhibit A. 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:	Orinda, CA
ASR	ASR 1010568 (Exhibit D)
Geographic Coordinates (NAD83):	37°52'56.5" N, 122° 13' 15.1" W
Channel:	275 (102.9 MHz)
Effective Radiated Power:	475 W (H+V)
Antenna Type, Pattern:	Jampro JAVA 1-1 (2) (Exhibit C)
Antenna Orientation:	55° True
Site Height AMSL	552.9m
Tower OAGL	63m
Antenna Height :	
Above ground:	30m
Above mean sea level:	582.9m

As shown in Exhibit A the 54dBu contour of the booster will fall inside the 54dBu contour of KBLX-FM (275B) 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 KBLX-FM interfering contours. KBLX-FM is not short-spaced to any first adjacent stations. There is no IF issue to any other stations from this location.

ENVIRONMENTAL CONSIDERATIONS

The Booster will be attached at the 30m height on an existing 63m tower. Because there will be no modifications to this tower it is exempt from environmental processing under CFR Section 1.1306.

The proposed KBLX-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 $11.1\mu\text{W}/\text{cm}^2$, 5.6% of the maximum allowable $200\mu\text{W}/\text{cm}^2$ 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

Proposed KBLX Orinda CA Booster (475w)

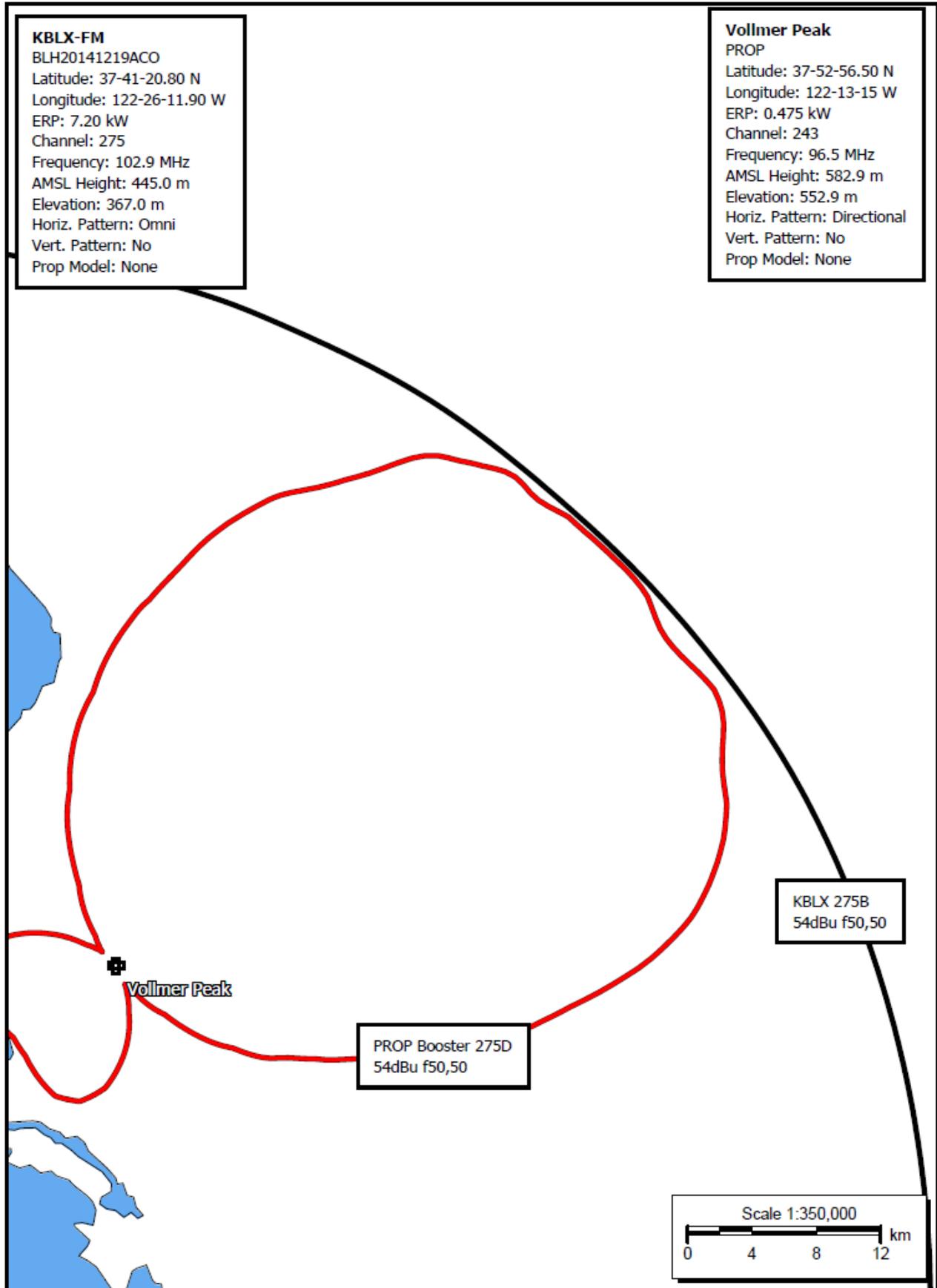


EXHIBIT B- First- Adjacent Protection

Proposed KBLX Orinda CA Booster (475w), First Adjacent Protections

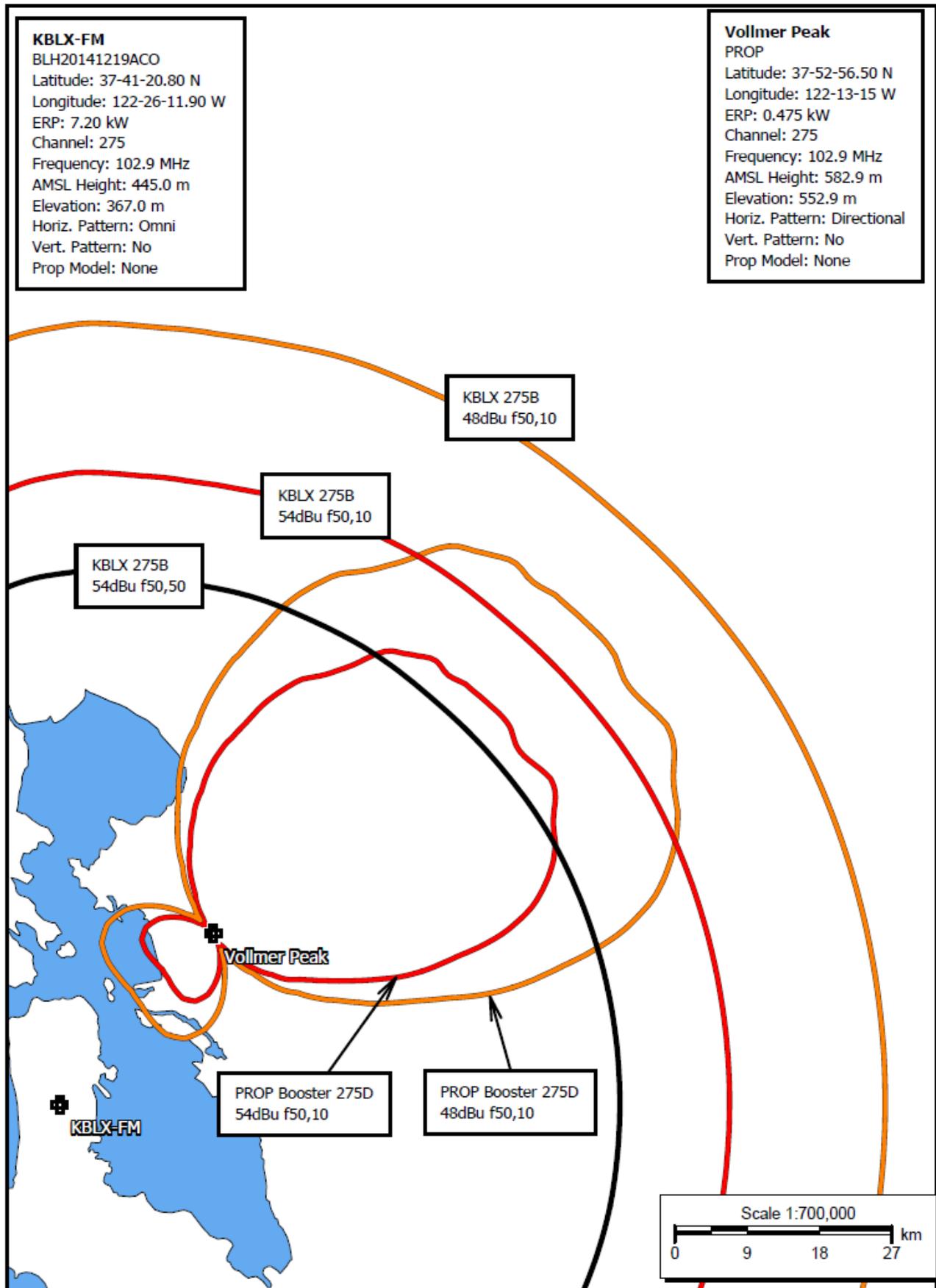
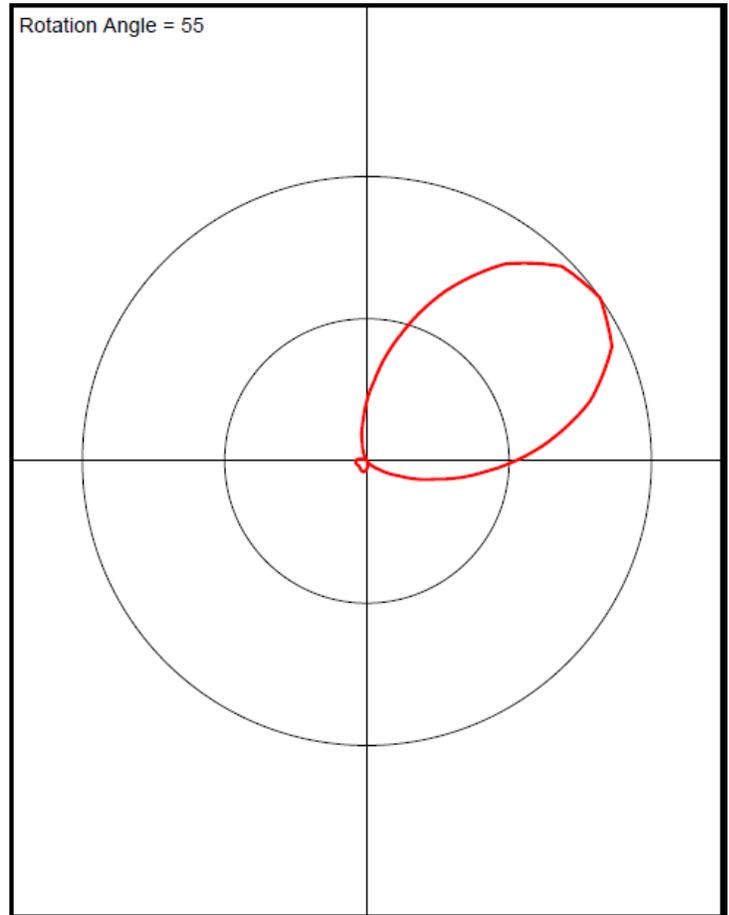


EXHIBIT C- Antenna Pattern

Vollmer Antenna Pattern

Post-Rotation Antenna Pattern....

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



320.0	0.006
325.0	0.008
330.0	0.015
335.0	0.022
340.0	0.042
345.0	0.062
350.0	0.1035
355.0	0.145

EXHIBIT D- ASR REGISTRATION

Registration 1010568

[Map Registration](#)

Registration Detail			
Reg Number	1010568	Status	Constructed
File Number	A0816198	Constructed	09/10/2001
EMI	No	Dismantled	
NEPA	No		
Antenna Structure			
Structure Type	TOWER - Free standing or Guyed Structure used for Commu		
Location (in NAD83 Coordinates)			
Lat/Long	37-52-56.5 N 122-13-15.1 W	Address	Near Intersection of Seaview Ln and Grizzly Peak Blvd (Volmer Peak #8254--GLD)
City, State	Orinda , CA	County	CONTRA COSTA
Zip	94563	Center of AM Array	Position of Tower in Array
Heights (meters)			
Elevation of Site Above Mean Sea Level	552.9	Overall Height Above Ground (AGL)	63.1
Overall Height Above Mean Sea Level	616.0	Overall Height Above Ground w/o Appurtenances	61.0
Painting and Lighting Specifications			
FAA Chapters 4, 8, 12 Paint and Light in Accordance with FAA Circular Number 70/7460-1K			
FAA Notification			
FAA Study	2008-AWP-2409-OE	FAA Issue Date	04/30/2008
Owner & Contact Information			
FRN	0011498342	Owner Entity Type	Limited Liability Company
Assignor FRN	0005885231	Assignor ID	L00008376
Owner			
American Towers LLC Attention To: Regulatory Compliance FAA FCC 10 Presidential Way Woburn , MA 01801		P: (678)564-3236 F: E: faa-fcc@americantower.com	
Contact			
Attention To: FAA FCC 10 Presidential Way Woburn , MA 01801		P: (678)564-3236 F: E: faa-fcc@americantower.com	
Last Action Status			
Status	Constructed	Received	01/15/2013
Purpose	Change Owner	Entered	01/15/2013
Mode	Interactive		
Related Applications			
01/15/2013	A0816198 - Change Owner (OC)		
05/05/2008	A0592940 - Modification (MD)		
05/05/2008	A0592941 - Notification (NT)		
Related applications (18)			
Comments			
Comments			
None			
History			
Date	Event		
01/16/2013	Registration Printed		
01/16/2013	Change of Ownership Letter Sent		
01/15/2013	Change of Ownership Received		
All History (37)			
Pleadings			
Pleading Type	Filer Name	Description	Date Entered
None			