

**Goldman Engineering Management  
Auburn, CA**

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KWFN (FM)

APPLICATION FOR NEW ON-CHANNEL BOOSTER

This technical statement and attached exhibits have been prepared on behalf of Entercom License, LLC licensee of station KWFN (FM), Channel 247B, San Diego, CA, Facility identifier 30832 for a new on-channel booster.

FACILITIES REQUESTED

The requested facility will operate within the 54dBu contour of KWFN (FM). The proposed booster is compliant with 74.1232(f). A map showing the coverage of this booster in relationship to the KWFN 54dBu contour is shown in Exhibit A. Regarding 74.1204 compliance, there are no first adjacent stations affected nor are there any IF spacing restrictions from the proposed location. The antenna being used is a Shively 6025-1-2 dual element, single level log-periodic antenna rotated 30 degrees from vertical to achieve slant H+V polarization. The Azimuth Pattern is attached as Exhibit B.

Booster Location:	Escondido, CA (Black Mountain)
ASR	1301779 (Exhibit C)
Geographic Coordinates (NAD27):	32° - 58- 52'' N, 117° -6'-54.7'' W
Channel:	247 (97.3 MHz)
Effective Radiated Power:	0.16kW V, 0.053kW H
Antenna Type, Pattern:	Shively 6025-1-2 log-periodic, 30 deg slant
Antenna Orientation:	351° True
Site Height AMSL	456m
Tower OAGL	34m
Antenna Height :	
Above ground:	14m
Above mean sea level:	470m

## ENVIRONMENTAL CONSIDERATIONS

The Booster will be attached 12 meters AGL on a 34m existing tower There will be no modifications to the tower.

The proposed log-periodic antenna will operate with 160 watts peak ERP Vertical and 53 watts horizontal.

At ground level the estimated RF level will be approximately  $14.9 \mu\text{W}/\text{cm}^2$  or approximately 7.5% of allowable public exposure levels. There are no other non-excluded facilities on the proposed tower.

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

KWFN Black Mountain Booster Compliance

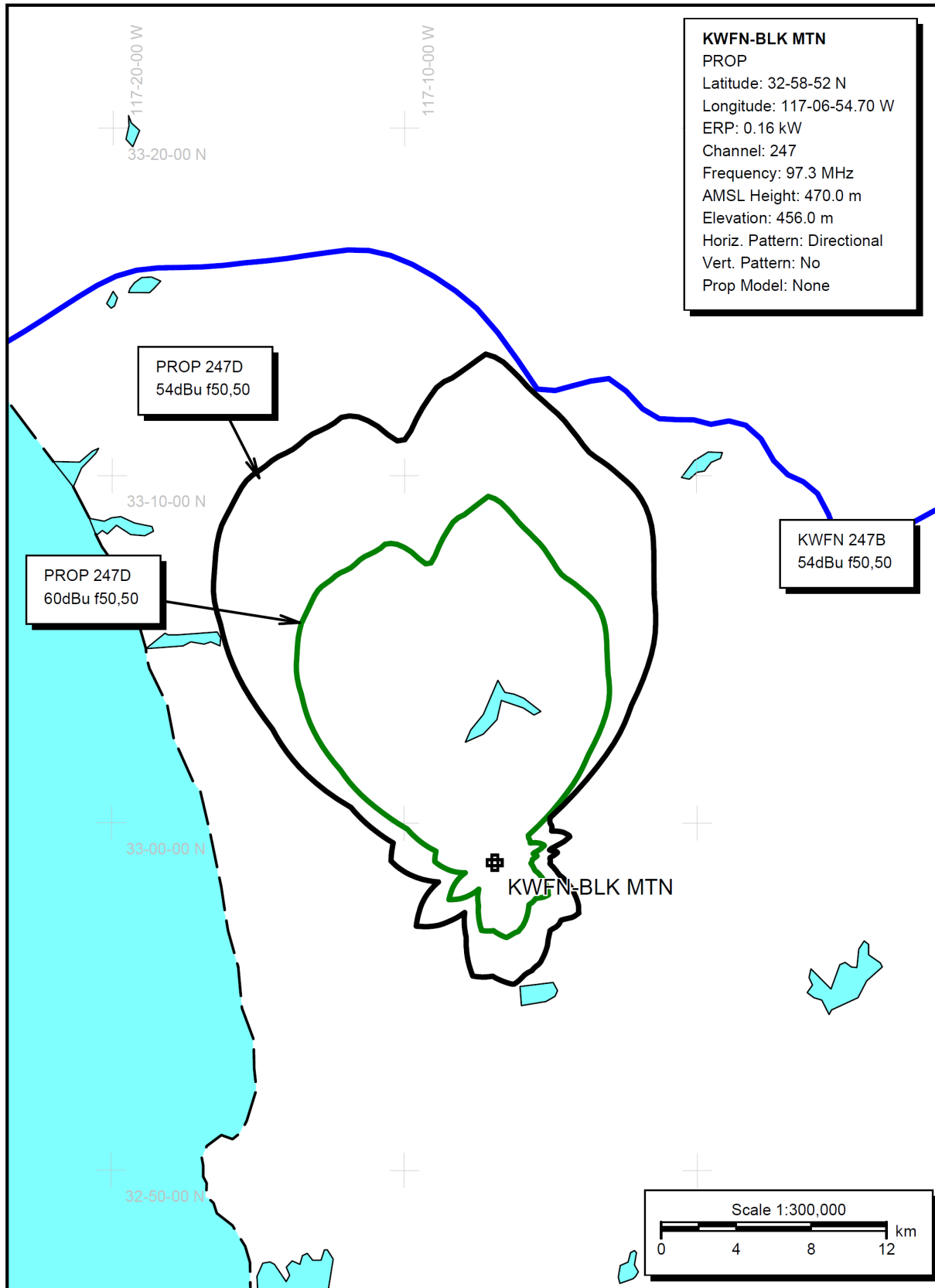
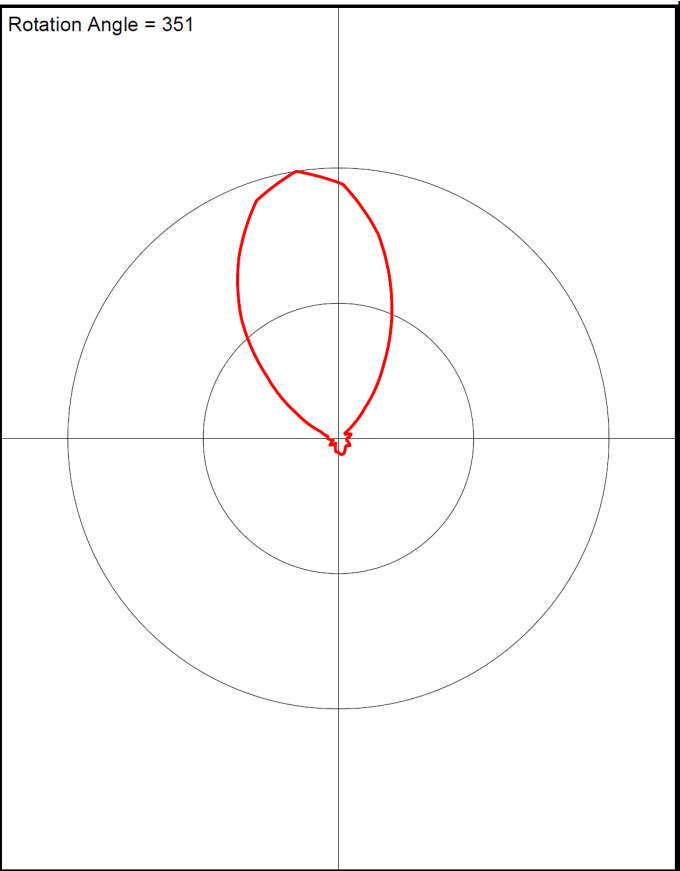


EXHIBIT B- Antenna Pattern

KWFN Black Mtn Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	1.0
5.0	0.97
10.0	0.94
15.0	0.855
20.0	0.77
25.0	0.66
30.0	0.55
35.0	0.44
40.0	0.33
45.0	0.24
50.0	0.15
55.0	0.09
60.0	0.03
65.0	0.03
70.0	0.03
75.0	0.04
80.0	0.05
85.0	0.045
90.0	0.04
95.0	0.035
100.0	0.03
105.0	0.03
110.0	0.03
115.0	0.035
120.0	0.04
125.0	0.045
130.0	0.05
135.0	0.045
140.0	0.04
145.0	0.04
150.0	0.04
155.0	0.045
160.0	0.05
165.0	0.055
170.0	0.06
175.0	0.06
180.0	0.06
185.0	0.055
190.0	0.05
195.0	0.05
200.0	0.05
205.0	0.04
210.0	0.03
215.0	0.025
220.0	0.02
225.0	0.025
230.0	0.03
235.0	0.035
240.0	0.04
245.0	0.035
250.0	0.03
255.0	0.025
260.0	0.02
265.0	0.025
270.0	0.03
275.0	0.035
280.0	0.04
285.0	0.04
290.0	0.04
295.0	0.055
300.0	0.07
305.0	0.125
310.0	0.18
315.0	0.265



320.0	0.35
325.0	0.46
330.0	0.57
335.0	0.665
340.0	0.76
345.0	0.845
350.0	0.93
355.0	0.965

## Exhibit C- ASR

### Registration 1301779

[Map Registration](#)

#### Registration Detail

Reg Number	1301779	Status	Constructed
File Number	A1069904	Constructed	08/01/1981
EMI	No	Dismantled	
NEPA			

#### Antenna Structure

Structure Type	LTOWER - Lattice Tower		
<b>Location</b> (in NAD83 Coordinates)			
Lat/Long	32-58-52.2 N 117-06-57.9 W	Address	5.4M West Northwest of Poway (089295)
City, State	San Diego , CA		
Zip	92129-3832	County	SAN DIEGO
Center of AM Array		Position of Tower in Array	

#### Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
456.3	33.8
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
490.1	27.4

#### Painting and Lighting Specifications

FAA Chapters 4, 5, 12  
Paint and Light in Accordance with FAA Circular Number 70/7460-1K

#### FAA Notification

FAA Study	2006-AWP-1483-OE	FAA Issue Date	04/11/2006
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#### Owner & Contact Information

FRN	0011498342	Owner Entity Type	Limited Liability Company
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#### Owner

American Towers LLC	P: (781)926-4500
Attention To: FAA/FCC Regulatory Team	F:
10 Presidential Way	E: faa-fcc@americantower.com
Woburn , MA 01801	

#### Contact

Attention To: FAA/FCC Regulatory Team	P: (781)926-4500
10 Presidential Way	F:
Woburn , MA 01801	E: faa-fcc@americantower.com

#### Last Action Status

Status	Constructed	Received	03/31/2017
Purpose	Notification	Entered	03/31/2017
Mode	Interactive		

#### Related Applications

03/31/2017	A1069904 - Notification (NT)
03/21/2017	A1069264 - Amendment (AM)

#### Comments

##### Comments

None

#### History

Date	Event
03/31/2017	Construction Notification Received
03/23/2017	Registration Printed