

APPLICATION FOR A
MINOR MODIFICATION TO
A CONSTRUCTION
PERMITTED LPFM
BROADCAST STATION
HAVING CALL SIGN KZNQ-
LP FACILITY ID 196311
FCC FILE BNPL-
20131112BLX SANTA
CLARITA, CA

January 30, 2015

Prepared For:

Santa Clarita Public Service
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1.0 CHANNEL CHANGE JUSTIFICATION AND SITE RELOCATION WAIVER

Santa Clarita Public Service Broadcasters Corporation (“SCPSBC”) filed for and received an original construction permit application having FCC file number BNPL-20131112BLX. It is herein proposed to modify the channel from 268 to channel 256 which is 12 channels below the current channel. It is also herein proposed to change the transmitter site from 34° 25’ 45.0” N. Latitude 118° 34’ 51.1” W. Longitude to 34° 33’ 50.0” N. Latitude 118° 38’ 31.1” W. Longitude which is a 16.0 km site change.

Pursuant to 47 C.F.R. Section 73.870(a)(1) a minor modification is defined as

“Changes in frequency to adjacent or IF frequencies or, upon a technical showing of reduced interference, to any frequency”

The proposed channel is not adjacent or an IF channel to the permitted channel. In an attempt to demonstrate that the proposed channel provides reduced interference a study based upon a standard Longley-Rice interference prediction model was run on the permitted channel and it was found that the KZNQ-LP 60 dBu coverage area is theoretically interference free from surrounding stations; however, this is not the real case. Since the grant of the original construction permit, the applicant has noticed a very dominating presence of a 50kW co-channel signal from KGB located in San Diego penetrating the entire KZNQ-LP 60 dBu coverage area. Appendix H is a sworn affidavit from the applicant giving testimony as a witness of the persistent and frequent signal presence. The strong presence of KGB has been noted when warm air over the interior land region interacts with cold air along the coast and can only be explained as a phenomenon known as “Tropospheric Ducting”. The phenomenon is not a parameter considered in the Longley-Rice propagation model or any other widely accepted model and thus cannot be modeled as an interference constraint to demonstrate that a channel change will provide a reduction of interference. As such moving to a channel that does not experience tropospheric ducting is considered a reduction of interference. The only channel available that also happens to not experience tropospheric ducting is 256.

In order to change from channel 268 to 256, the applicant must move 16 km to a remote facility that is not

- short spaced with any co-channel or first adjacent channel stations,
- can meet a second adjacent channel waiver since no inhabitable buildings or 4 lane highways can lie within the interference area,
- and has reasonable assurance from the property owner to use the site.

As such it is respectfully requested to waive 47 C.F.R Section 73.870(a) of the rules which limits a minor site change limited to 5.6 km or less.

2.0 MODIFIED TECHNICAL PARAMETERS

The instant modification application shall entail modifying the following technical parameters

2.1 FCC Form 318 – Section VI – Question 1 - Channel

The channel is herein amended from 268 to 256

2.2 FCC Form 318 – Section VI – Question 2 - Location

The transmitter site location is herein amended

<u>From (NAD27)</u>	<u>To (NAD27):</u>
34° 25' 45.0" N	34° 33' 50.0" N
118° 34' 51.1" W	118° 38' 31.1" W

This is a 16.0 km site change which exceeds the 47 C.F.R. Section 73.870(a)(1) 5.6km threshold, refer to the waiver in section 1.0 The proposed site has an existing 39' monopole tower without FAA or FCC registrations. FCC's TOWAIR determines "Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided."

2.3 FCC Form 318 – Section VI – Questions 4, 5, and 6 - Elevations

The Antenna Location Site Elevation above Mean Sea Level is herein amended from 388.0 meters to 715 meters. The Overall Tower height above ground level is herein amended from 10.7 meters to 12.0 meters. The Height of radiation center above ground level is herein amended from 10.7 meters to 11.6 meters. These modified parameters are due to a total site change.

3.0 ALLOCATION ANALYSIS AND REQUEST FOR WAIVER

The instant application modifies the channel from 268 to 256.

3.1 LPFM Short Space Study for Channel 256

Appendix A is a channel study which demonstrates the distance separation requirements of 47 C.F.R. Section 73.807. As demonstrated the proposed LPFM facility is short spaced to the following second adjacent channel facilities:

KKLA-FM FCC File No.: BLH-20060829BEO
KYSR-FM FCC File No.: BMLH-20090709ACO

3.2 Second Adjacent Channel Short Spacing Waiver for KKLA-FM

Appendix B demonstrates the Undesired-to-Desired signal ratio method using the directional antenna illustrated in Appendix F rotated 270 degrees from true north and the corresponding interfering contour. As shown, the interfering contour does not touch occupied structures or major roadways. Therefore, no population shall be subject to interference from the proposed station according to the undesired-to-desired ratio method. As such, a wavier is respectfully requested for the proposed LPFM second-adjacent channel short-spacing with KKLA-FM -FM FCC File BLH-20060829BEO, facility ID 48453 and of which is not an existing station designated with a Radio Reading Service.

3.3 Second Adjacent Channel Short Spacing Waiver for KYSR -FM

Appendix C demonstrates the Undesired-to-Desired signal ratio method using the directional antenna illustrated in Appendix F rotated 270 degrees from true north and the corresponding interfering contour. As shown, the interfering contour does not touch occupied structures or major roadways. Therefore, no population shall be subject to interference from the proposed station according to the undesired-to-desired ratio method. As such, a wavier is respectfully requested for the proposed LPFM second-adjacent channel short-spacing with KYSR-FM FCC File BMLH-20090709ACO, facility ID 36019 and of which is not an existing station designated with a Radio Reading Service.

4.0 INTERFERENCE TO TRANSLATOR OR BOOSTER INPUT SIGNALS

Pursuant to the requirements of 47 C.F.R. Section 73.827(a), Appendix D lists the following FM translator and booster stations which are located within 10 km of the proposed LPFM site and are subject to potential third adjacent-channel interference to the reception of their input channel from their parent station from the herein proposed LPFM facility:

K244EW(FX) FCC File No: BNPFT-20130826AEE
Input Channel: KWTD(FM) Ch. 220

None of the listed translators or boosters has an input channel that is third-adjacent to the proposed LPFM facility; as such the proposed LPFM facility will not cause interference to the input signals of and surrounding FM translator or FM booster stations.

5.0 CHANNEL 6 TELEVISION STATIONS

Section 47 C.F.R. Section 73.825 TV Channel 6 interference is not a factor for LPFM stations operating on channels 221 – 300 and thus is not applicable to the instant application for further analysis.

6.0 AM STATION PROXIMITY

Appendix E demonstrates that there no AM stations within 3.2 km of the proposed coordinates, thus an exhibit demonstrating compliance with 47 C.F.R. Section 73.1692 is not required. No height alterations shall be made to the existing structure and thus the height in electrical degrees will not be altered relative any AM station beyond 3.2 km

7.0 INTERNATIONAL COORDINATION

The proposed facility lies within 320 km from the Mexican border and is thus within international coordination distance. Applicants between 125 km and 320 km of Mexico require coordination only if they specify an ERP exceeding 50 watts in the direction of Mexico. The instant amendment specifies an ERP of 49 Watts and thus will not require coordination with Mexican officials.

8.0 NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)

8.1 General Environmental Requirements

The proposed support structure and antenna will not:

- Require high intensity white lighting.
- Is not located in an official designated wilderness area or wildlife preserve.
- Does not threaten the existence or habitat of endangered species.
- Does not affect districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places or are eligible for listing.
- Does not affect Indian religious sites.
- Is not located in a floodplain
- Does not require construction that involves significant changes in surface features (e.g., wetland fill, deforestation or water diversion).

8.2 Radio Frequency Radiation (RFR) Compliance.

Appendix G is a RFR analysis which demonstrates that the peak RFR exposure is less than 5% of the most restrictive permissible exposure threshold standing anywhere at ground level and in any proximity to the proposed support structure. Pursuant to OET Bulletin 65, since the proposed operation does not exceed 5% of the most permissible exposure at any location 2 meters above ground, it is not considered a significant contributor to RFR and other sources of RFR need not be taken into consideration for a net effect. The instant application is compliant with the FCC limits for human exposure to RFR and thus is excluded from further environmental processing.

9.0 DIRECTIONAL ANTENNA SPECIFICATIONS

Pursuant to 47 C.F.R Section 73.816(c)(2) LPFM permittee proposing a waiver of the second-adjacent channel spacing requirements of Section 73.807 may utilize directional antennas for the sole purpose of justifying such a waiver. As demonstrated in Section 3, a directional antenna will be required particularly in order to provide interference protection to KRTH-FM and KSCA-FM.

9.1 LPFM Directional Antenna Make Model and Orientation and Polarization

A Kathrein Scala Division Model HDCA-5CP/RM FM single bay Circularly Polarized Yagi antenna shall be mounted 11.6m above ground on the support structure and shall be oriented 270 degrees relative to true north. Appendix F specifies the antennas technical parameters and directional relative field pattern. **The Appendix F "off the shelf" pattern is pre-oriented and 270 degrees clockwise rotation will properly orient the pattern.**

10.0 CONCLUSION

As demonstrated the proposed facility will not be mutual exclusive with any other facilities when considering the requested second adjacent channel waivers. On all other accounts, the proposed facility is well within compliance on all regulatory matters.

11.0 CERTIFICATION

The foregoing statement and the report regarding the aforementioned engineering work are true and correct to the best of my knowledge. Executed on December 30, 2014.

KESSLER AND GEHMAN ASSOCIATES, INC.



Ryan Wilhour
Consulting Engineer

APPENDIX A - Short Spacing Study for Channel 256

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REFERENCE                                     CLASS = L1 Int = L1                               DISPLAY DATES
34 33 50.0 N.                                Current Spacings to 3rd Adj.                     DATA 01-29-15
118 38 31.1 W.                               Channel 256 - 99.1 MHz                           SEARCH 01-30-15
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Call	Channel	Location	Azi	Dist	FCC	Margin
KYSR	LIC	254B Los Angeles	CA	155.0	54.47	66.5 -12.0 *
KKLA-FM	LIC-Z	258B Los Angeles	CA	125.2	65.30	66.5 -1.2 *
NEW	CP	256L1 Lancaster	CA	59.5	24.41	23.5 0.9
NEW	CP -N	255A Mettler	CA	332.1	56.81	55.5 1.3
KWSV-LP	CP	256L1 Simi Valley	CA	182.1	31.28	23.5 7.8
1654099	APP	256L1 San Fernando	CA	139.0	34.17	23.5 10.7
1654283	APP	256L1 Sun Valley	CA	146.6	44.11	23.5 20.6
KGGI	LIC	256B Riverside	CA	104.5	142.86	111.5 31.4
KKBB	LIC-N	257B1 Bakersfield	CA	341.0	105.15	73.5 31.7
KXFM	LIC	256B Santa Maria	CA	285.7	146.49	111.5 35.0
1587912	APP	256L1 Oxnard	CA	228.6	63.58	23.5 40.1
K259BD	LIC	259D Rosamond	CA	44.2	48.21	7.5 40.7
NEW	CP	256L1 Venice	CA	165.4	64.67	23.5 41.2
K259BI	LIC-D	259D Ventura	CA	249.6	68.17	20.5 47.7
NEW	CP	257L1 Ventura	CA	249.7	68.33	13.5 54.8
NEW	CP	256L1 Carson	CA	159.4	87.01	23.5 63.5
KDFO	LIC	253B1 Delano	CA	340.3	112.21	45.5 66.7
K255CO	CP	255D Solimar Beach	CA	240.8	87.11	14.5 72.6

 All separation margins include rounding

* See Section 3.0 and Appendix B & C for waiver analysis.

APPENDIX B - Short Spacing Waiver Calculation for KKLA-FM

Short Spacing Undesired-to-Desired Ratio Calculation to second-adjacent channel facility:

Undesired-to-Desired Ratio Method:

BLH-20060829BEO f(50,50) signal: 56.2 dBu¹
Second-adjacent protection: + 40 dB
Interference-zone boundary: 96.2 dBu
Distance to 96.2 dBu: 759.2 meters at 270 degrees (where ERP = 0.049 kW, at antenna relative field of 1.0)

Using the directional antenna shown in Appendix F rotated with its maximum lobe of radiation pointed towards 270 degrees from true north, the peak interference zone propagates 759.2 meters. As demonstrated below the directional antenna pulls a null in order to keep the 96.2 dBu interfering contour from intersecting neither occupied structures nor major roadways, thus as demonstrated no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

¹ tvfmfs_metric() C-language subroutine as distributed by the FCC. At distances less than or equal to 1.5 km, tvfmfs_metric() uses the free-space method.



As shown there are two communications equipment shelters that lie within the prohibited zone. Neither of the equipment shelters are habitable by people nor can they be used for office/retail space. The shelters are on site to keep wireless equipment for the towers secured and in a climate controlled environment. As such, the interference zone does not contact occupants nor does it intersect with nearby occupied structures or major roadways, thus no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

APPENDIX C - Short Spacing Waiver Calculation for KYSR-FM

Short Spacing Undesired-to-Desired Ratio Calculation to second-adjacent channel facility:

Undesired-to-Desired Ratio Method:

BMLH-20090709ACO f(50,50) signal: 67.7 dBu²
Second-adjacent protection: + 40 dB
Interference-zone boundary: 107.7 dBu
Distance to 107.7 dBu: 202.0 meters at 270 degrees (where ERP = 0.049 kW, at antenna relative field of 1.0)

Using the directional antenna shown in Appendix F rotated with its maximum lobe of radiation pointed towards 270 degrees from true north, the peak interference zone propagates 202.0 meters. As demonstrated below the directional antenna pulls a null in order to keep the 107.7 dBu interfering contour from intersecting neither occupied structures nor major roadways, thus as demonstrated no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

² tvfmfs_metric() C-language subroutine as distributed by the FCC. At distances less than or equal to 1.5 km, tvfmfs_metric() uses the free-space method.



As shown there are two communications equipment shelters that lie within the prohibited zone. Neither of the equipment shelters are habitable by people nor can they be used for office/retail space. The shelters are on site to keep wireless equipment for the towers secured and in a climate controlled environment. As such, the interference zone does not contact occupants nor does it intersect with nearby occupied structures or major roadways, thus no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

APPENDIX D – Translator and Booster Proximity

The proposed transmitter site proximity to FM boosters and translators was determined using the FCC's FMQuery tool:

<http://www.fcc.gov/encyclopedia/fm-query-broadcast-station-search>

Results are as follows:

Boosters within 10km of the proposed LPFM transmitter site:

Search Parameters:

Service:	FB
Search radius:	10.00 km
Center lat / lon:	N 34 33 50.00 W 118 38 31.10
Lower Channel	200
Upper Channel	300

FM Query Results

Thu Jan 29 22:46:09 2015 Eastern time

(Landscape printing preferred)

*** 0 FM Records within 10.00 km distance of 34° 33' 50.00" N, 118° 38' 31.10" W ***

Translators within 10km of the proposed LPFM transmitter site:

Search Parameters:

Service:	FX
Search radius:	10.00 km
Center lat / lon:	N 34 33 50.00 W 118 38 31.10
Lower Channel	200
Upper Channel	300

FM Query Results

Thu Jan 29 22:47:35 2015 Eastern time

(Landscape printing preferred)

Call	Channel	Class	Service	Frequency	Status	City	State	Country	File Number
K244EW	244	D	FX	96.7 MHz	CP	PALMDALE	CA	US	BNPFT-20130826AEE

*** 1 FM Records within 10.00 km distance of 34° 33' 50.00" N, 118° 38' 31.10" W ***

APPENDIX E – AM Station Proximity

The proposed transmitter site proximity to AM stations was determined using the FCC's FMQuery tool:

<http://www.fcc.gov/encyclopedia/am-query-broadcast-station-search>

Results are as follows:

AM Stations within 3.2 km radius for 47 C.F.R. Section 73.1692 compliance:

Thu Jan 29 23:08:12 2015 Eastern time

Search Parameters

Search radius:	3.20 km
Center lat / lon:	N 34 33 50.00 W 118 38 31.10
Lower Frequency	530
Upper Frequency	1700

*** 0 AM Records within 3.20 km distance of 34° 33' 50.00" N, 118° 38' 31.10" W ***

APPENDIX F – Broadcast Antenna Specifications



HDCA-5CP/RM
 FM Yagi Antenna
 88 to 108 MHz

The Kathrein-Scala HDCA-5CP/RM is a ruggedly built yagi antenna, designed for professional FM transmit and receive applications.

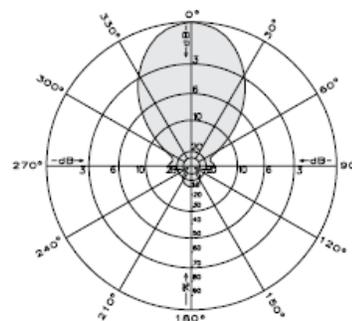
Like all Kathrein-Scala antennas, the HDCA-5CP/RM is made of the finest materials resulting in superior performance and long service life.

The HDCA-5CP/RM may be used stand-alone or in stacked arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.



Specifications:

Frequency range	Any specified FM channel 88 to 108 MHz
Gain	4.5 dBd
Power gain	2.82
Impedance	50 or 75 ohms
VSWR	< 1.5:1
Polarization	Circular
Front-to-back ratio	>14 dB
Maximum input power	100 watts (75Ω N) 250 watts (50Ω N)
Azimuth pattern	62 degrees (half-power)
Elevation pattern	62 degrees (half-power)
Connector	50Ω N or 75Ω N
Weight	34.5 lb (15.6 kg)
Dimensions	74.1 x 54 x 51 inches maximum (1882 x 1372 x 1295 mm)
Wind load	at 100 mph (160 kph) 79 lbf (350 N) maximum
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	84 x 13 x 8 inches maximum (2134 x 330 x 203 mm)
Shipping weight	37.5 lb (15.6 kg)
Mounting	For masts of 2.375 inches (60 mm) OD.

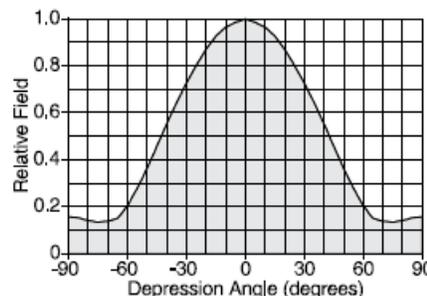


Azimuth pattern

* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

Order Information:

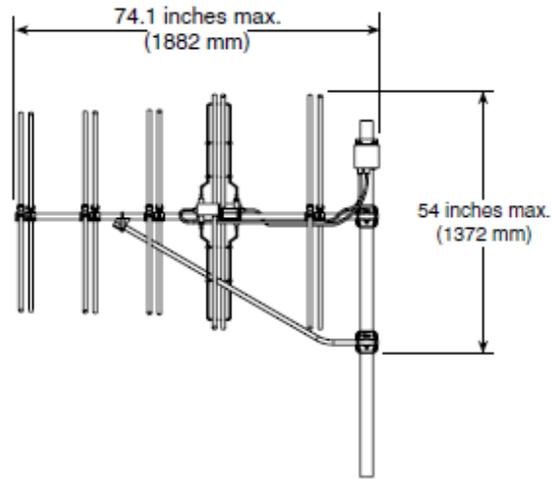
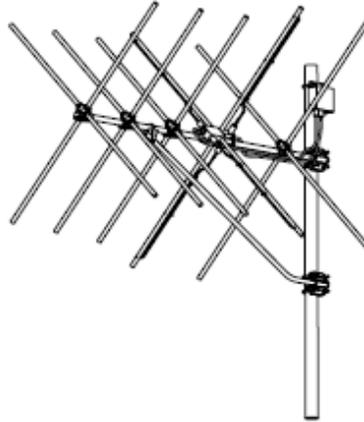
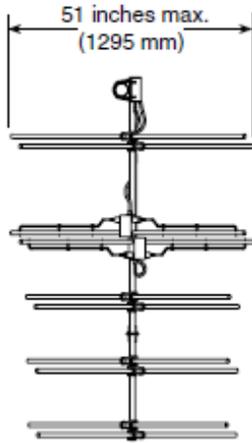
Contact Kathrein-Scala Customer Service for detailed order information.



Elevation pattern

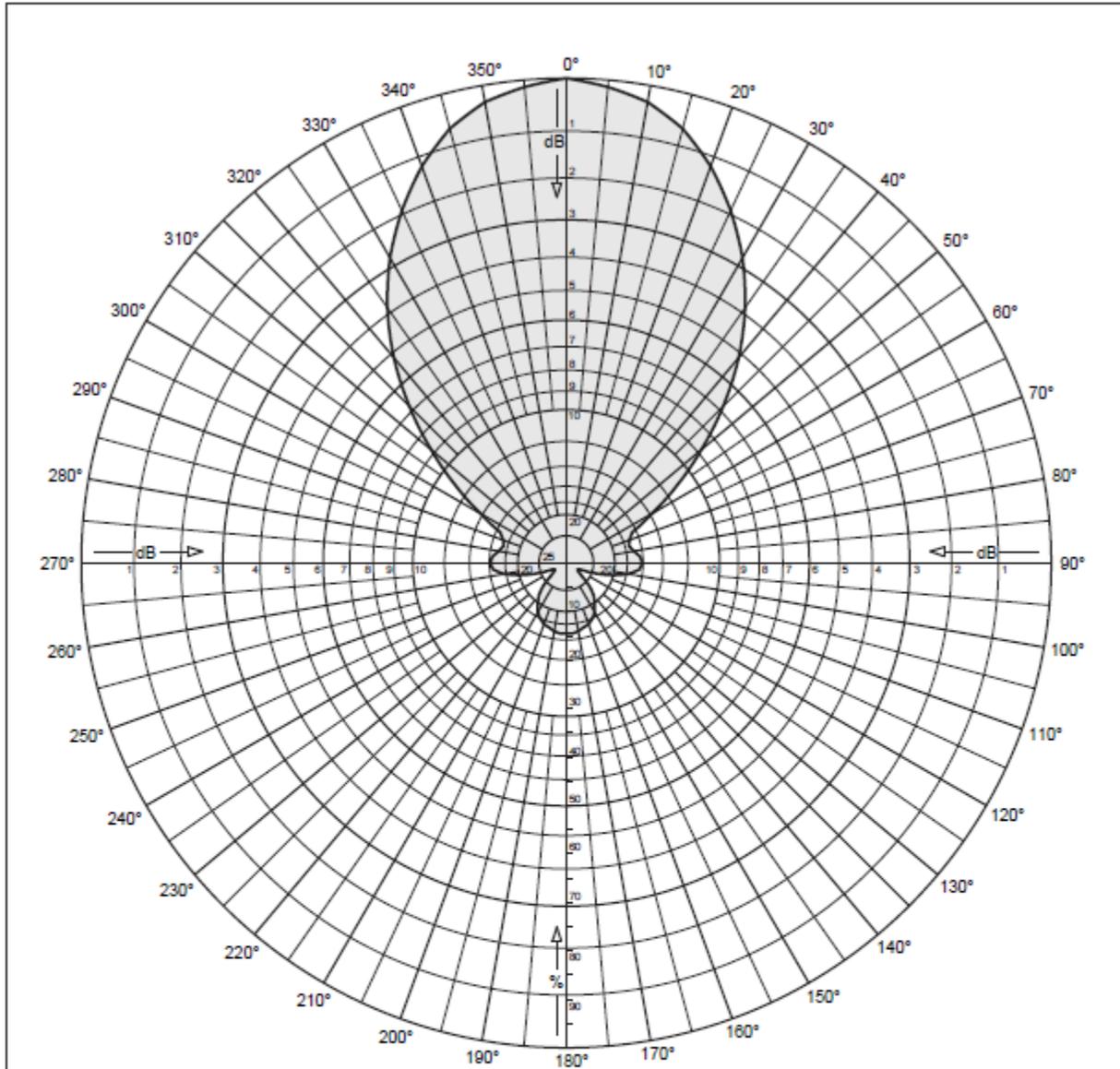


HDCA-5CP/RM
FM Yagi Antenna
88 to 108 MHz



Order Information:

Contact Kathrein-Scala Customer Service for detailed order information.



HDCA-5CP/RM
FM
Maximum gain: 4.5 dBd
Circular polarization
Horizontal radiation pattern
0 degree electrical downtilt



26-Oct-2011

APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015



HDCA-5CP/RM

FM

Maximum gain: 4.5 dBd

Circular polarization

Horizontal radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	4.50	2.82	45	0.458	-6.79	-2.29	0.59
1	0.997	-0.02	4.48	2.80	46	0.439	-7.15	-2.65	0.54
2	0.994	-0.05	4.45	2.79	47	0.420	-7.53	-3.03	0.50
3	0.992	-0.07	4.43	2.77	48	0.401	-7.93	-3.43	0.45
4	0.989	-0.10	4.40	2.75	49	0.382	-8.35	-3.85	0.41
5	0.986	-0.12	4.38	2.74	50	0.363	-8.79	-4.29	0.37
6	0.982	-0.16	4.34	2.72	51	0.346	-9.21	-4.71	0.34
7	0.978	-0.20	4.30	2.69	52	0.329	-9.65	-5.15	0.31
8	0.974	-0.23	4.27	2.67	53	0.312	-10.11	-5.61	0.27
9	0.970	-0.27	4.23	2.65	54	0.295	-10.59	-6.09	0.25
10	0.966	-0.30	4.20	2.63	55	0.278	-11.11	-6.61	0.22
11	0.958	-0.37	4.13	2.59	56	0.263	-11.59	-7.09	0.20
12	0.951	-0.44	4.06	2.55	57	0.248	-12.10	-7.60	0.17
13	0.943	-0.51	3.99	2.51	58	0.233	-12.64	-8.14	0.15
14	0.935	-0.58	3.92	2.47	59	0.218	-13.22	-8.72	0.13
15	0.928	-0.65	3.85	2.43	60	0.203	-13.84	-9.34	0.12
16	0.916	-0.76	3.74	2.37	61	0.193	-14.30	-9.80	0.10
17	0.905	-0.87	3.63	2.31	62	0.182	-14.80	-10.30	0.09
18	0.894	-0.98	3.52	2.25	63	0.171	-15.32	-10.82	0.08
19	0.882	-1.09	3.41	2.19	64	0.161	-15.88	-11.38	0.07
20	0.871	-1.20	3.30	2.14	65	0.150	-16.48	-11.98	0.06
21	0.857	-1.34	3.16	2.07	66	0.148	-16.61	-12.11	0.06
22	0.843	-1.48	3.02	2.00	67	0.145	-16.75	-12.25	0.06
23	0.830	-1.62	2.88	1.94	68	0.143	-16.89	-12.39	0.06
24	0.816	-1.77	2.73	1.88	69	0.141	-17.04	-12.54	0.06
25	0.802	-1.91	2.59	1.81	70	0.138	-17.18	-12.68	0.05
26	0.787	-2.08	2.42	1.75	71	0.138	-17.23	-12.73	0.05
27	0.772	-2.25	2.25	1.68	72	0.137	-17.28	-12.78	0.05
28	0.757	-2.42	2.08	1.62	73	0.136	-17.33	-12.83	0.05
29	0.742	-2.59	1.91	1.55	74	0.135	-17.38	-12.88	0.05
30	0.727	-2.77	1.73	1.49	75	0.134	-17.44	-12.94	0.05
31	0.710	-2.97	1.53	1.42	76	0.136	-17.35	-12.85	0.05
32	0.693	-3.18	1.32	1.36	77	0.137	-17.26	-12.76	0.05
33	0.677	-3.39	1.11	1.29	78	0.138	-17.18	-12.68	0.05
34	0.660	-3.61	0.89	1.23	79	0.140	-17.09	-12.59	0.06
35	0.643	-3.83	0.67	1.17	80	0.141	-17.01	-12.51	0.06
36	0.625	-4.08	0.42	1.10	81	0.143	-16.87	-12.37	0.06
37	0.607	-4.33	0.17	1.04	82	0.146	-16.73	-12.23	0.06
38	0.589	-4.59	-0.09	0.98	83	0.148	-16.59	-12.09	0.06
39	0.571	-4.86	-0.36	0.92	84	0.150	-16.46	-11.96	0.06
40	0.553	-5.14	-0.64	0.86	85	0.153	-16.33	-11.83	0.07
41	0.534	-5.44	-0.94	0.80	86	0.153	-16.28	-11.78	0.07
42	0.515	-5.76	-1.26	0.75	87	0.154	-16.23	-11.73	0.07
43	0.496	-6.09	-1.59	0.69	88	0.155	-16.19	-11.69	0.07
44	0.477	-6.43	-1.93	0.64	89	0.156	-16.14	-11.64	0.07

26-Oct-2011

APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015



HDCA-5CP/RM

FM

Maximum gain: 4.5 dBd

Circular polarization

Horizontal radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
90	0.157	-16.10	-11.60	0.07	135	0.067	-23.41	-18.91	0.01
91	0.156	-16.16	-11.66	0.07	136	0.072	-22.89	-18.39	0.01
92	0.155	-16.21	-11.71	0.07	137	0.076	-22.40	-17.90	0.02
93	0.154	-16.27	-11.77	0.07	138	0.080	-21.94	-17.44	0.02
94	0.153	-16.33	-11.83	0.07	139	0.084	-21.50	-17.00	0.02
95	0.152	-16.38	-11.88	0.06	140	0.088	-21.08	-16.58	0.02
96	0.147	-16.63	-12.13	0.06	141	0.091	-20.81	-16.31	0.02
97	0.143	-16.89	-12.39	0.06	142	0.094	-20.54	-16.04	0.02
98	0.139	-17.16	-12.66	0.05	143	0.097	-20.29	-15.79	0.03
99	0.134	-17.44	-12.94	0.05	144	0.100	-20.04	-15.54	0.03
100	0.130	-17.72	-13.22	0.05	145	0.102	-19.80	-15.30	0.03
101	0.123	-18.18	-13.68	0.04	146	0.105	-19.56	-15.06	0.03
102	0.117	-18.66	-14.16	0.04	147	0.108	-19.33	-14.83	0.03
103	0.110	-19.17	-14.67	0.03	148	0.111	-19.10	-14.60	0.03
104	0.103	-19.72	-15.22	0.03	149	0.114	-18.88	-14.38	0.04
105	0.097	-20.29	-15.79	0.03	150	0.117	-18.66	-14.16	0.04
106	0.089	-20.98	-16.48	0.02	151	0.119	-18.51	-14.01	0.04
107	0.082	-21.72	-17.22	0.02	152	0.121	-18.37	-13.87	0.04
108	0.075	-22.54	-18.04	0.02	153	0.123	-18.23	-13.73	0.04
109	0.067	-23.44	-18.94	0.01	154	0.125	-18.08	-13.58	0.04
110	0.060	-24.44	-19.94	0.01	155	0.127	-17.95	-13.45	0.05
111	0.054	-25.35	-20.85	0.01	156	0.128	-17.84	-13.34	0.05
112	0.048	-26.38	-21.88	0.01	157	0.130	-17.74	-13.24	0.05
113	0.042	-27.54	-23.04	0.00	158	0.131	-17.64	-13.14	0.05
114	0.036	-28.87	-24.37	0.00	159	0.133	-17.54	-13.04	0.05
115	0.030	-30.46	-25.96	0.00	160	0.134	-17.45	-12.95	0.05
116	0.029	-30.65	-26.15	0.00	161	0.135	-17.40	-12.90	0.05
117	0.029	-30.85	-26.35	0.00	162	0.136	-17.36	-12.86	0.05
118	0.028	-31.06	-26.56	0.00	163	0.136	-17.32	-12.82	0.05
119	0.027	-31.27	-26.77	0.00	164	0.137	-17.27	-12.77	0.05
120	0.027	-31.48	-26.98	0.00	165	0.138	-17.23	-12.73	0.05
121	0.027	-31.27	-26.77	0.00	166	0.139	-17.17	-12.67	0.05
122	0.028	-31.06	-26.56	0.00	167	0.140	-17.10	-12.60	0.05
123	0.029	-30.85	-26.35	0.00	168	0.141	-17.03	-12.53	0.06
124	0.029	-30.65	-26.15	0.00	169	0.142	-16.97	-12.47	0.06
125	0.030	-30.46	-25.96	0.00	170	0.143	-16.90	-12.40	0.06
126	0.032	-29.81	-25.31	0.00	171	0.143	-16.87	-12.37	0.06
127	0.035	-29.20	-24.70	0.00	172	0.144	-16.82	-12.32	0.06
128	0.037	-28.64	-24.14	0.00	173	0.145	-16.79	-12.29	0.06
129	0.039	-28.10	-23.60	0.00	174	0.146	-16.74	-12.24	0.06
130	0.042	-27.60	-23.10	0.00	175	0.146	-16.70	-12.20	0.06
131	0.047	-26.59	-22.09	0.01	176	0.146	-16.71	-12.21	0.06
132	0.052	-25.68	-21.18	0.01	177	0.146	-16.73	-12.23	0.06
133	0.057	-24.86	-20.36	0.01	178	0.146	-16.74	-12.24	0.06
134	0.062	-24.11	-19.61	0.01	179	0.145	-16.76	-12.26	0.06

26-Oct-2011

APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015



HDCA-5CP/RM

FM

Maximum gain: 4.5 dBd

Circular polarization

Horizontal radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
180	0.145	-16.77	-12.27	0.06	225	0.067	-23.41	-18.91	0.01
181	0.145	-16.76	-12.26	0.06	226	0.062	-24.11	-19.61	0.01
182	0.146	-16.74	-12.24	0.06	227	0.057	-24.86	-20.36	0.01
183	0.146	-16.73	-12.23	0.06	228	0.052	-25.68	-21.18	0.01
184	0.146	-16.71	-12.21	0.06	229	0.047	-26.59	-22.09	0.01
185	0.146	-16.70	-12.20	0.06	230	0.042	-27.60	-23.10	0.00
186	0.146	-16.74	-12.24	0.06	231	0.039	-28.10	-23.60	0.00
187	0.145	-16.79	-12.29	0.06	232	0.037	-28.64	-24.14	0.00
188	0.144	-16.82	-12.32	0.06	233	0.035	-29.20	-24.70	0.00
189	0.143	-16.87	-12.37	0.06	234	0.032	-29.81	-25.31	0.00
190	0.143	-16.90	-12.40	0.06	235	0.030	-30.46	-25.96	0.00
191	0.142	-16.97	-12.47	0.06	236	0.029	-30.65	-26.15	0.00
192	0.141	-17.03	-12.53	0.06	237	0.029	-30.85	-26.35	0.00
193	0.140	-17.10	-12.60	0.05	238	0.028	-31.06	-26.56	0.00
194	0.139	-17.17	-12.67	0.05	239	0.027	-31.27	-26.77	0.00
195	0.138	-17.23	-12.73	0.05	240	0.027	-31.48	-26.98	0.00
196	0.137	-17.27	-12.77	0.05	241	0.027	-31.27	-26.77	0.00
197	0.136	-17.32	-12.82	0.05	242	0.028	-31.06	-26.56	0.00
198	0.136	-17.36	-12.86	0.05	243	0.029	-30.85	-26.35	0.00
199	0.135	-17.40	-12.90	0.05	244	0.029	-30.65	-26.15	0.00
200	0.134	-17.45	-12.95	0.05	245	0.030	-30.46	-25.96	0.00
201	0.133	-17.54	-13.04	0.05	246	0.036	-28.87	-24.37	0.00
202	0.131	-17.64	-13.14	0.05	247	0.042	-27.54	-23.04	0.00
203	0.130	-17.74	-13.24	0.05	248	0.048	-26.38	-21.88	0.01
204	0.128	-17.84	-13.34	0.05	249	0.054	-25.35	-20.85	0.01
205	0.127	-17.95	-13.45	0.05	250	0.060	-24.44	-19.94	0.01
206	0.125	-18.08	-13.58	0.04	251	0.067	-23.44	-18.94	0.01
207	0.123	-18.23	-13.73	0.04	252	0.075	-22.54	-18.04	0.02
208	0.121	-18.37	-13.87	0.04	253	0.082	-21.72	-17.22	0.02
209	0.119	-18.51	-14.01	0.04	254	0.089	-20.98	-16.48	0.02
210	0.117	-18.66	-14.16	0.04	255	0.097	-20.29	-15.79	0.03
211	0.114	-18.88	-14.38	0.04	256	0.103	-19.72	-15.22	0.03
212	0.111	-19.10	-14.60	0.03	257	0.110	-19.17	-14.67	0.03
213	0.108	-19.33	-14.83	0.03	258	0.117	-18.66	-14.16	0.04
214	0.105	-19.56	-15.06	0.03	259	0.123	-18.18	-13.68	0.04
215	0.102	-19.80	-15.30	0.03	260	0.130	-17.72	-13.22	0.05
216	0.100	-20.04	-15.54	0.03	261	0.134	-17.44	-12.94	0.05
217	0.097	-20.29	-15.79	0.03	262	0.139	-17.16	-12.66	0.05
218	0.094	-20.54	-16.04	0.02	263	0.143	-16.89	-12.39	0.06
219	0.091	-20.81	-16.31	0.02	264	0.147	-16.63	-12.13	0.06
220	0.088	-21.08	-16.58	0.02	265	0.152	-16.38	-11.88	0.06
221	0.084	-21.50	-17.00	0.02	266	0.153	-16.33	-11.83	0.07
222	0.080	-21.94	-17.44	0.02	267	0.154	-16.27	-11.77	0.07
223	0.076	-22.40	-17.90	0.02	268	0.155	-16.21	-11.71	0.07
224	0.072	-22.89	-18.39	0.01	269	0.156	-16.16	-11.66	0.07

26-Oct-2011

APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015



HDCA-5CP/RM

FM

Maximum gain: 4.5 dBd

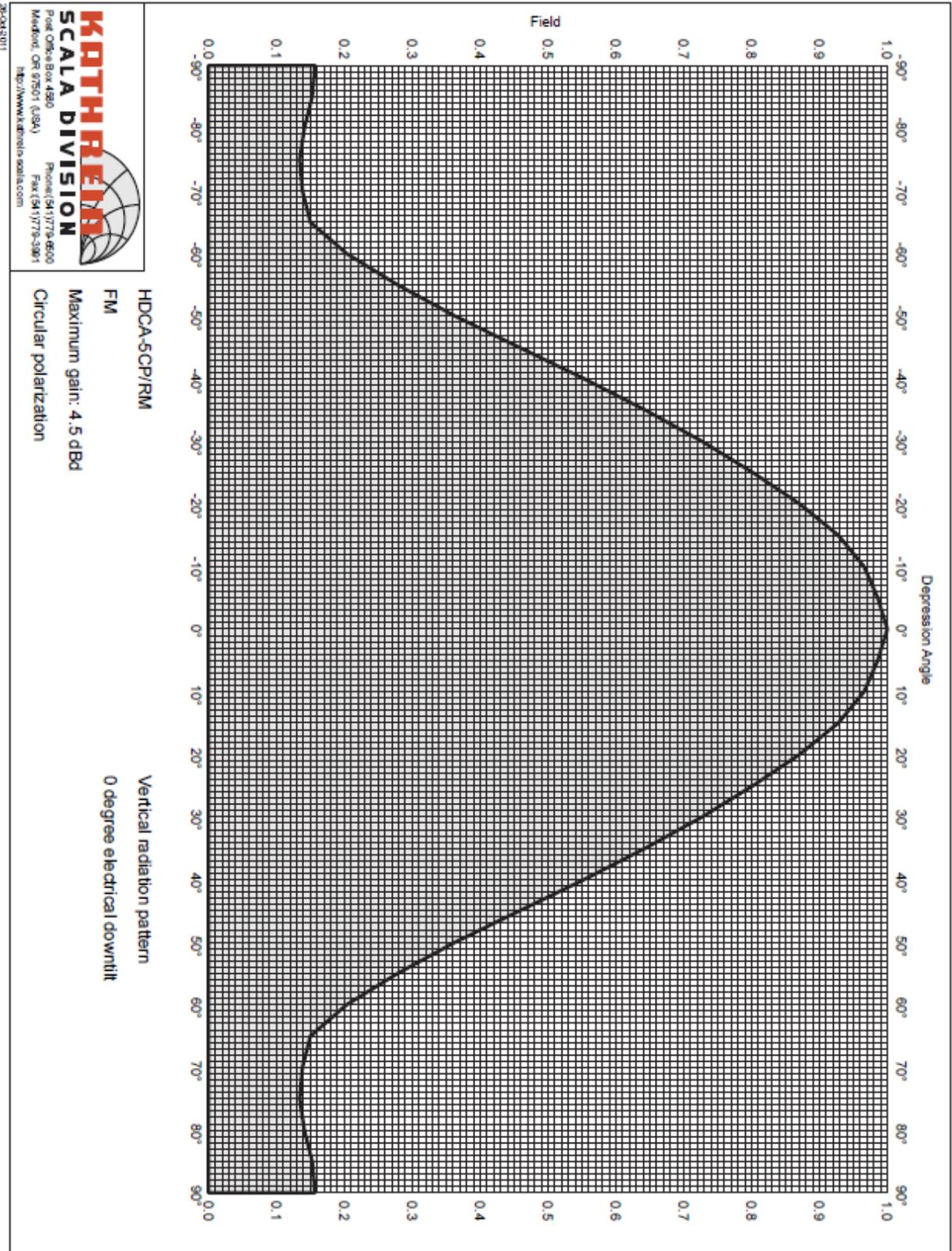
Circular polarization

Horizontal radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
270	0.157	-16.10	-11.60	0.07	315	0.458	-6.79	-2.29	0.59
271	0.156	-16.14	-11.64	0.07	316	0.477	-6.43	-1.93	0.64
272	0.155	-16.19	-11.69	0.07	317	0.496	-6.09	-1.59	0.69
273	0.154	-16.23	-11.73	0.07	318	0.515	-5.76	-1.26	0.75
274	0.153	-16.28	-11.78	0.07	319	0.534	-5.44	-0.94	0.80
275	0.153	-16.33	-11.83	0.07	320	0.553	-5.14	-0.64	0.86
276	0.150	-16.46	-11.96	0.06	321	0.571	-4.86	-0.36	0.92
277	0.148	-16.59	-12.09	0.06	322	0.589	-4.59	-0.09	0.98
278	0.146	-16.73	-12.23	0.06	323	0.607	-4.33	0.17	1.04
279	0.143	-16.87	-12.37	0.06	324	0.625	-4.08	0.42	1.10
280	0.141	-17.01	-12.51	0.06	325	0.643	-3.83	0.67	1.17
281	0.140	-17.09	-12.59	0.06	326	0.660	-3.61	0.89	1.23
282	0.138	-17.18	-12.68	0.05	327	0.677	-3.39	1.11	1.29
283	0.137	-17.26	-12.76	0.05	328	0.693	-3.18	1.32	1.36
284	0.136	-17.35	-12.85	0.05	329	0.710	-2.97	1.53	1.42
285	0.134	-17.44	-12.94	0.05	330	0.727	-2.77	1.73	1.49
286	0.135	-17.38	-12.88	0.05	331	0.742	-2.59	1.91	1.55
287	0.136	-17.33	-12.83	0.05	332	0.757	-2.42	2.08	1.62
288	0.137	-17.28	-12.78	0.05	333	0.772	-2.25	2.25	1.68
289	0.138	-17.23	-12.73	0.05	334	0.787	-2.08	2.42	1.75
290	0.138	-17.18	-12.68	0.05	335	0.802	-1.91	2.59	1.81
291	0.141	-17.04	-12.54	0.06	336	0.816	-1.77	2.73	1.88
292	0.143	-16.89	-12.39	0.06	337	0.830	-1.62	2.88	1.94
293	0.145	-16.75	-12.25	0.06	338	0.843	-1.48	3.02	2.00
294	0.148	-16.61	-12.11	0.06	339	0.857	-1.34	3.16	2.07
295	0.150	-16.48	-11.98	0.06	340	0.871	-1.20	3.30	2.14
296	0.161	-15.88	-11.38	0.07	341	0.882	-1.09	3.41	2.19
297	0.171	-15.32	-10.82	0.08	342	0.894	-0.98	3.52	2.25
298	0.182	-14.80	-10.30	0.09	343	0.905	-0.87	3.63	2.31
299	0.193	-14.30	-9.80	0.10	344	0.916	-0.76	3.74	2.37
300	0.203	-13.84	-9.34	0.12	345	0.928	-0.65	3.85	2.43
301	0.218	-13.22	-8.72	0.13	346	0.935	-0.58	3.92	2.47
302	0.233	-12.64	-8.14	0.15	347	0.943	-0.51	3.99	2.51
303	0.248	-12.10	-7.60	0.17	348	0.951	-0.44	4.06	2.55
304	0.263	-11.59	-7.09	0.20	349	0.958	-0.37	4.13	2.59
305	0.278	-11.11	-6.61	0.22	350	0.966	-0.30	4.20	2.63
306	0.295	-10.59	-6.09	0.25	351	0.970	-0.27	4.23	2.65
307	0.312	-10.11	-5.61	0.27	352	0.974	-0.23	4.27	2.67
308	0.329	-9.65	-5.15	0.31	353	0.978	-0.20	4.30	2.69
309	0.346	-9.21	-4.71	0.34	354	0.982	-0.16	4.34	2.72
310	0.363	-8.79	-4.29	0.37	355	0.986	-0.12	4.38	2.74
311	0.382	-8.35	-3.85	0.41	356	0.989	-0.10	4.40	2.75
312	0.401	-7.93	-3.43	0.45	357	0.992	-0.07	4.43	2.77
313	0.420	-7.53	-3.03	0.50	358	0.994	-0.05	4.45	2.79
314	0.439	-7.15	-2.65	0.54	359	0.997	-0.02	4.48	2.80

26-04-2011



APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015



HDCA-5CP/RM

FM

Maximum gain: 4.5 dBd

Circular polarization

Vertical radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
-90	0.157	-16.10	-11.60	0.07	-45	0.458	-6.79	-2.29	0.59
-89	0.156	-16.14	-11.64	0.07	-44	0.477	-6.43	-1.93	0.64
-88	0.155	-16.19	-11.69	0.07	-43	0.496	-6.09	-1.59	0.69
-87	0.154	-16.23	-11.73	0.07	-42	0.515	-5.76	-1.26	0.75
-86	0.153	-16.28	-11.78	0.07	-41	0.534	-5.44	-0.94	0.80
-85	0.153	-16.33	-11.83	0.07	-40	0.553	-5.14	-0.64	0.86
-84	0.150	-16.46	-11.96	0.06	-39	0.571	-4.86	-0.36	0.92
-83	0.148	-16.59	-12.09	0.06	-38	0.589	-4.59	-0.09	0.98
-82	0.146	-16.73	-12.23	0.06	-37	0.607	-4.33	0.17	1.04
-81	0.143	-16.87	-12.37	0.06	-36	0.625	-4.08	0.42	1.10
-80	0.141	-17.01	-12.51	0.06	-35	0.643	-3.83	0.67	1.17
-79	0.140	-17.09	-12.59	0.06	-34	0.660	-3.61	0.89	1.23
-78	0.138	-17.18	-12.68	0.05	-33	0.677	-3.39	1.11	1.29
-77	0.137	-17.26	-12.76	0.05	-32	0.693	-3.18	1.32	1.36
-76	0.136	-17.35	-12.85	0.05	-31	0.710	-2.97	1.53	1.42
-75	0.134	-17.44	-12.94	0.05	-30	0.727	-2.77	1.73	1.49
-74	0.135	-17.38	-12.88	0.05	-29	0.742	-2.59	1.91	1.55
-73	0.136	-17.33	-12.83	0.05	-28	0.757	-2.42	2.08	1.62
-72	0.137	-17.28	-12.78	0.05	-27	0.772	-2.25	2.25	1.68
-71	0.138	-17.23	-12.73	0.05	-26	0.787	-2.08	2.42	1.75
-70	0.138	-17.18	-12.68	0.05	-25	0.802	-1.91	2.59	1.81
-69	0.141	-17.04	-12.54	0.06	-24	0.816	-1.77	2.73	1.88
-68	0.143	-16.89	-12.39	0.06	-23	0.830	-1.62	2.88	1.94
-67	0.145	-16.75	-12.25	0.06	-22	0.843	-1.48	3.02	2.00
-66	0.148	-16.61	-12.11	0.06	-21	0.857	-1.34	3.16	2.07
-65	0.150	-16.48	-11.98	0.06	-20	0.871	-1.20	3.30	2.14
-64	0.161	-15.88	-11.38	0.07	-19	0.882	-1.09	3.41	2.19
-63	0.171	-15.32	-10.82	0.08	-18	0.894	-0.98	3.52	2.25
-62	0.182	-14.80	-10.30	0.09	-17	0.905	-0.87	3.63	2.31
-61	0.193	-14.30	-9.80	0.10	-16	0.916	-0.76	3.74	2.37
-60	0.203	-13.84	-9.34	0.12	-15	0.928	-0.65	3.85	2.43
-59	0.218	-13.22	-8.72	0.13	-14	0.935	-0.58	3.92	2.47
-58	0.233	-12.64	-8.14	0.15	-13	0.943	-0.51	3.99	2.51
-57	0.248	-12.10	-7.60	0.17	-12	0.951	-0.44	4.06	2.55
-56	0.263	-11.59	-7.09	0.20	-11	0.958	-0.37	4.13	2.59
-55	0.278	-11.11	-6.61	0.22	-10	0.966	-0.30	4.20	2.63
-54	0.295	-10.59	-6.09	0.25	-9	0.970	-0.27	4.23	2.65
-53	0.312	-10.11	-5.61	0.27	-8	0.974	-0.23	4.27	2.67
-52	0.329	-9.65	-5.15	0.31	-7	0.978	-0.20	4.30	2.69
-51	0.346	-9.21	-4.71	0.34	-6	0.982	-0.16	4.34	2.72
-50	0.363	-8.79	-4.29	0.37	-5	0.986	-0.12	4.38	2.74
-49	0.382	-8.35	-3.85	0.41	-4	0.989	-0.10	4.40	2.75
-48	0.401	-7.93	-3.43	0.45	-3	0.992	-0.07	4.43	2.77
-47	0.420	-7.53	-3.03	0.50	-2	0.994	-0.05	4.45	2.79
-46	0.439	-7.15	-2.65	0.54	-1	0.997	-0.02	4.48	2.80
					0	1.000	0.00	4.50	2.82

26-Oct-2011

APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015



HDCA-5CP/RM

FM

Maximum gain: 4.5 dBd

Circular polarization

Vertical radiation pattern

0 degree electrical downtilt

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	0.00	4.50	2.82	45	0.458	-6.79	-2.29	0.59
1	0.997	-0.02	4.48	2.80	46	0.439	-7.15	-2.65	0.54
2	0.994	-0.05	4.45	2.79	47	0.420	-7.53	-3.03	0.50
3	0.992	-0.07	4.43	2.77	48	0.401	-7.93	-3.43	0.45
4	0.989	-0.10	4.40	2.75	49	0.382	-8.35	-3.85	0.41
5	0.986	-0.12	4.38	2.74	50	0.363	-8.79	-4.29	0.37
6	0.982	-0.16	4.34	2.72	51	0.346	-9.21	-4.71	0.34
7	0.978	-0.20	4.30	2.69	52	0.329	-9.65	-5.15	0.31
8	0.974	-0.23	4.27	2.67	53	0.312	-10.11	-5.61	0.27
9	0.970	-0.27	4.23	2.65	54	0.295	-10.59	-6.09	0.25
10	0.966	-0.30	4.20	2.63	55	0.278	-11.11	-6.61	0.22
11	0.958	-0.37	4.13	2.59	56	0.263	-11.59	-7.09	0.20
12	0.951	-0.44	4.06	2.55	57	0.248	-12.10	-7.60	0.17
13	0.943	-0.51	3.99	2.51	58	0.233	-12.64	-8.14	0.15
14	0.935	-0.58	3.92	2.47	59	0.218	-13.22	-8.72	0.13
15	0.928	-0.65	3.85	2.43	60	0.203	-13.84	-9.34	0.12
16	0.916	-0.76	3.74	2.37	61	0.193	-14.30	-9.80	0.10
17	0.905	-0.87	3.63	2.31	62	0.182	-14.80	-10.30	0.09
18	0.894	-0.98	3.52	2.25	63	0.171	-15.32	-10.82	0.08
19	0.882	-1.09	3.41	2.19	64	0.161	-15.88	-11.38	0.07
20	0.871	-1.20	3.30	2.14	65	0.150	-16.48	-11.98	0.06
21	0.857	-1.34	3.16	2.07	66	0.148	-16.61	-12.11	0.06
22	0.843	-1.48	3.02	2.00	67	0.145	-16.75	-12.25	0.06
23	0.830	-1.62	2.88	1.94	68	0.143	-16.89	-12.39	0.06
24	0.816	-1.77	2.73	1.88	69	0.141	-17.04	-12.54	0.06
25	0.802	-1.91	2.59	1.81	70	0.138	-17.18	-12.68	0.05
26	0.787	-2.08	2.42	1.75	71	0.138	-17.23	-12.73	0.05
27	0.772	-2.25	2.25	1.68	72	0.137	-17.28	-12.78	0.05
28	0.757	-2.42	2.08	1.62	73	0.136	-17.33	-12.83	0.05
29	0.742	-2.59	1.91	1.55	74	0.135	-17.38	-12.88	0.05
30	0.727	-2.77	1.73	1.49	75	0.134	-17.44	-12.94	0.05
31	0.710	-2.97	1.53	1.42	76	0.136	-17.35	-12.85	0.05
32	0.693	-3.18	1.32	1.36	77	0.137	-17.26	-12.76	0.05
33	0.677	-3.39	1.11	1.29	78	0.138	-17.18	-12.68	0.05
34	0.660	-3.61	0.89	1.23	79	0.140	-17.09	-12.59	0.06
35	0.643	-3.83	0.67	1.17	80	0.141	-17.01	-12.51	0.06
36	0.625	-4.08	0.42	1.10	81	0.143	-16.87	-12.37	0.06
37	0.607	-4.33	0.17	1.04	82	0.146	-16.73	-12.23	0.06
38	0.589	-4.59	-0.09	0.98	83	0.148	-16.59	-12.09	0.06
39	0.571	-4.86	-0.36	0.92	84	0.150	-16.46	-11.96	0.06
40	0.553	-5.14	-0.64	0.86	85	0.153	-16.33	-11.83	0.07
41	0.534	-5.44	-0.94	0.80	86	0.153	-16.28	-11.78	0.07
42	0.515	-5.76	-1.26	0.75	87	0.154	-16.23	-11.73	0.07
43	0.496	-6.09	-1.59	0.69	88	0.155	-16.19	-11.69	0.07
44	0.477	-6.43	-1.93	0.64	89	0.156	-16.14	-11.64	0.07
					90	0.157	-16.10	-11.60	0.07

26-04-2011

APPENDIX G - Far Field Exposure to RF Emissions

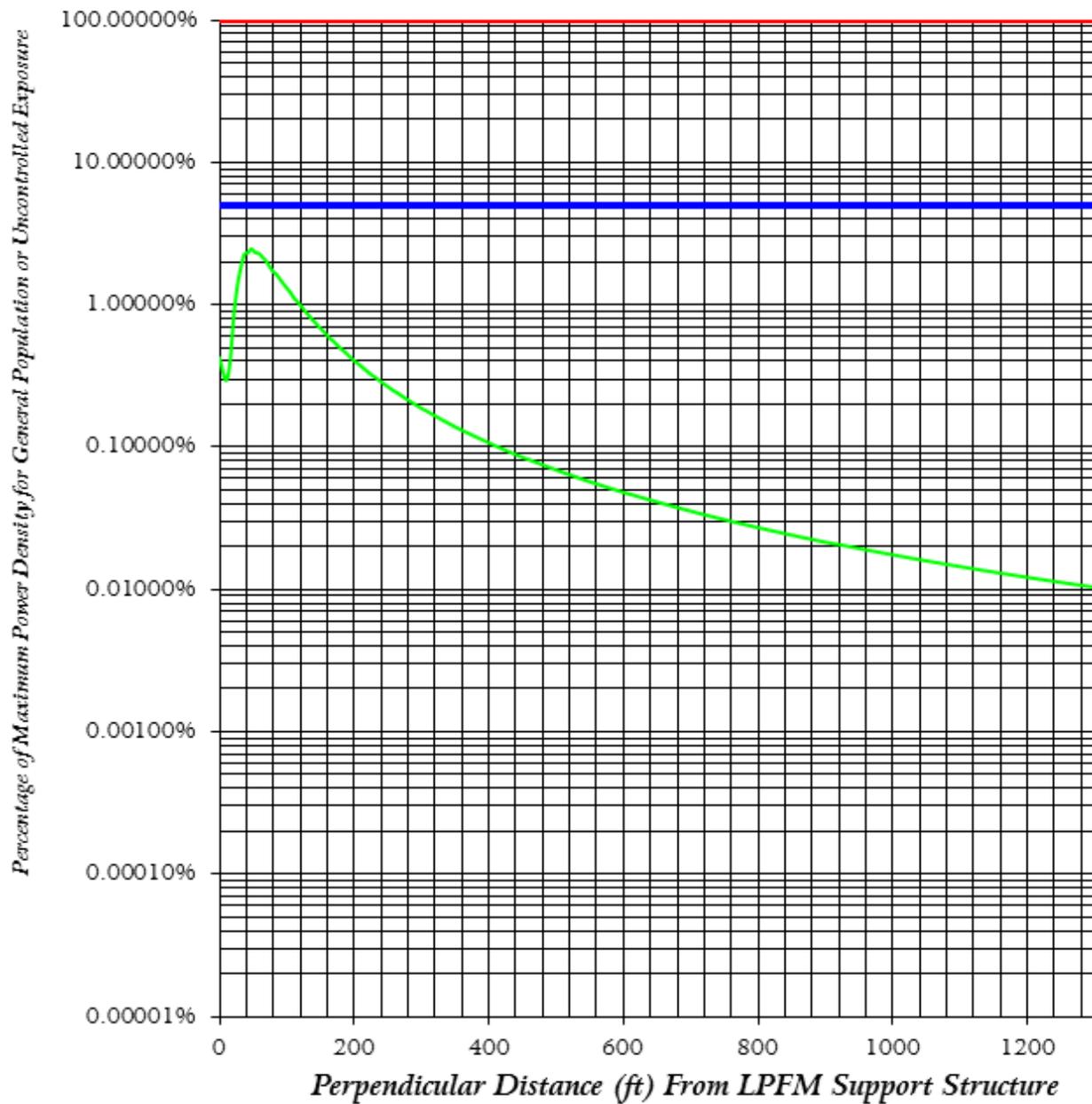
A theoretical analysis has been conducted of the human exposure to radio frequency radiation ("RFR") using the calculation methodology described in OET Bulletin 65, Edition 97-01. The RFR analysis is conducted pursuant to the following methodology:

Terrain³ extraction is compiled from the support structure site, if the support structure is on a rooftop with no higher elevations (e.g., elevator shaft) then flat terrain is compiled. Terrain is extracted using radial lengths of 0.25 miles in 0.001 mile increments for 360 radials. The power density is calculated for each terrain point at 6 feet above ground level using the elevation and azimuth pattern of the proposed broadcast antenna. The power density calculations are conducted using the lower edge of the proposed channel frequency. To account for ground reflections, a coefficient of 1.6 was included in the calculation.

The resulting cylindrical polar analysis is then summarized into a coordinate plane graph using the following methodology:

Starting from the origin the maximum calculated RFR value is determined among the 360 degree radials for each 0.001 mile increment, the value is then converted into a percentage of the maximum allowable general population or uncontrolled exposure and plotted as a function of perpendicular distance from the tower.

³ Terrain extraction is based upon a 3 arc second point spacing terrain database.



— Maximum Allowable General Population or Uncontrolled Exposure

— 5 % of Maximum General Population or Uncontrolled Exposure

— Percentage of Maximum General Population or Uncontrolled Exposure

APPENDIX H – Sworn Affidavit

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C.

In the matter of:)
)
A Received Interference Affidavit for)
A Construction Permitted) File No. BNPL-20131112BLX
Low Power FM Broadcast) Facility ID - 196311
Station on Channel 268 located in)
Santa Clarita, CA)

AFFIDAVIT

The undersigned, being first duly sworn under oath, deposes and says, under penalty of perjury:

1. I am the principal owner of Santa Clarita Public Service Broadcasters Corporation ("SCPSBC") having FCC file Number BNPL-20131112BLX and Facility ID Number 196311 created and existing under the laws of the State of California, and I am duly authorized to make this Affidavit on behalf of SCPSBC.
2. Prior to commencing broadcast operations on channel 268, I discovered that there was a strong co-channel signal from 50Kw KGB in San Diego. In my car, I drove my entire 60dbu contour while listening to channel 268. The signal was present throughout my entire 60dbu contour. The signal is more than objectionable; it is preventing me from commencing operations on channel 268. The signal is caused by persistent Tropospheric Ducting that occurs between San Diego and Los Angeles (Santa Clarita). On warm days air over the Interior Region interacts with cool air along the coast causing the duct to form. The greater the interior warming is, the stronger the duct is. Ducting is intermittent during Winter Months due to cooler temperatures. However, those days are too few to permit desirable operation of channel 268 in Santa Clarita.

APPLICATION FOR MODIFICATION TO AN LPFM BROADCAST STATION

Santa Clarita Public Service Broadcasters Corporation

January 30, 2015

3. I state under penalty of perjury that the information contained in this affidavit is true and correct to the best of my knowledge and belief.


[Signature]
Willie O. Walton

SUBSCRIBED AND SWORN TO this 29th day of December , 2015 before me, a Notary Public in and for the County and State aforesaid, by Willie O. Walton, who is personally known to me to be the principal owner of SCPSBC who appeared before me this day and duly acknowledged to me execution of the foregoing Affidavit.

[Seal]




[Signature]
Notary Public