

Federal Communications Commission Washington, D.C. 20554  <p style="text-align: center;"><b>FCC 303-S</b></p>	Approved by OMB 3060-0110 (March 2011)	FOR FCC USE ONLY  <hr/> FOR COMMISSION USE ONLY FILE NO. <b>BRED - 20130731AAT</b>
<b>APPLICATION FOR RENEWAL OF BROADCAST STATION LICENSE</b>  Read INSTRUCTIONS Before Filling Out Form		

**Section I - General Information- TO BE COMPLETED BY ALL APPLICANTS**

1.	Legal Name of the Licensee SANTA MONICA COMMUNITY COLLEGE DISTRICT						
	Mailing Address 1900 PICO BLVD.						
	City SANTA MONICA	State or Country (if foreign address) CA	ZIP Code 90405 - 1628				
	Telephone Number (include area code) 3104505183	E-Mail Address (if available)					
	FCC Registration Number: 0008615551	Facility ID Number 59085	Call Sign KCRU				
2.	Contact Representative LEWIS J. PAPER, ESQ.		Firm or Company Name PILLSBURY WINTHROP SHAW PITTMAN LLP				
	Mailing Address 2300 N STREET, NW						
	City WASHINGTON	State or Country (if foreign address) DC	Zip Code 20037 - 1122				
	Telephone Number (include area code) 2026638184	E-Mail Address (if available) LEW.PAPER@PILLSBURYLAW.COM					
3.	If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input checked="" type="radio"/> Governmental Entity <input type="radio"/> Noncommercial Educational Licensee <input type="radio"/> Other <input type="radio"/> N/A (Fee Required)						
4.	<b>Purpose of Application</b> <input checked="" type="radio"/> Renewal of license <input type="radio"/> Amendment to pending renewal application  If an amendment, submit as an exhibit a listing by Section and Item Number the portions of the      [Exhibit 1] pending application that are being revised.						
5.	<b>Facility Information:</b> <input type="radio"/> Commercial <input checked="" type="radio"/> Noncommercial Educational						
6.	<b>Service and Community of License</b> a. <input type="radio"/> AM <input checked="" type="radio"/> FM <input type="radio"/> FM Translator <input type="radio"/> LPFM <input type="radio"/> TV Translator <input type="radio"/> Low Power TV <input type="radio"/> Class A TV <input type="radio"/> Digital TV <input type="radio"/> Digital Translator or Digital LPTV <input type="radio"/> Digital Class A TV  <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Community of License /Area to be Served</td> </tr> <tr> <td style="width:50%;">City: OXNARD</td> <td style="width:50%;">State : CA</td> </tr> </table> b. Does this application include one or more FM translator station(s), or TV translator station(s), LPTV station(s), in addition to the station listed in Section I question 1? (The callsign(s) of any associated FM translators, TV translators or LPTV stations will be requested in Section V). <input checked="" type="radio"/> Yes <input type="radio"/> No			Community of License /Area to be Served		City: OXNARD	State : CA
Community of License /Area to be Served							
City: OXNARD	State : CA						

7. <b>Other Authorizations.</b> List call signs, facility identifiers and location(s) of any FM booster or TV booster station(s) for which renewal of license is also requested.	[Exhibit 2]	<input checked="" type="checkbox"/> N/A
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**NOTE: In addition to the information called for in Sections II, III, IV and V, an explanatory exhibit providing full particulars must be submitted for each item for which a "No" response is provided.**

**Section II - Legal - TO BE COMPLETED BY ALL APPLICANTS**

1.	<b>Certification.</b> Licensee certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Licensee further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application, instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	<b>Character Issues.</b> Licensee certifies that the neither the licensee nor any party to the application has or has had any interest in, or connection with:	
	a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 3]
	b. any pending broadcast application in which character issues have been raised.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 4]
3.	<b>Adverse Findings.</b> Licensee certifies that, with respect to the licensee and each party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any laws related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 5]
4.	<b>FCC Violations during the Preceding License Term.</b> Licensee certifies that, with respect to the station(s) for which renewal is requested, there have been no violations by the licensee of the Communications Act of 1934, as amended, or the rules or regulations of the Commission during the preceding license term. If No, the licensee must submit an explanatory exhibit providing complete descriptions of all violations.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 6]
5.	<b>Alien Ownership and Control.</b> Licensee certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 7]
6.	<b>Anti-Drug Abuse Act Certification.</b> Licensee certifies that neither licensee nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No
7.	<b>Non-Discriminatory Advertising Sales Agreements.</b> Commercial licensee certifies that its advertising sales agreements do not discriminate on the basis of race or ethnicity and that all such agreements held by the licensee contain nondiscrimination clauses. Noncommercial licensees should select "not applicable."	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A  See Explanation in [Exhibit 8]

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

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Typed or Printed Name of Person Signing RANDAL LAWSON	Typed or Printed Title of Person Signing EXECUTIVE VICE PRESIDENT
Signature	Date 07/31/2013

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

**Section III - TO BE COMPLETED BY AM and FM LICENSEES ONLY**

1.	<b>Biennial Ownership Report:</b> Licensee certifies that the station's Biennial Ownership Report (FCC Form 323 or 323-E) has been filed with the Commission as required by 47 C.F.R. Section 73.3615.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 9]
2.	<b>EEO Program:</b> Licensee certifies that:	
	a. The station's Broadcast EEO Program Report (FCC Form 396) has been filed with the Commission, as required by 47 C.F.R. Section 73.2080(f)(1).  Specify FCC Form 396 File Number : B396 - 20130731AAK	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 10]
	b. The station has posted its most recent Broadcast EEO Public File Report on the station's website, as required by 47 C.F.R. Section 73.2080(c)(6).	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A  See Explanation in [Exhibit 11]
3.	<b>Local Public File.</b> Licensee certifies that the documentation, required by 47 C.F.R. Section 73.3526 or 73.3527, as applicable, has been placed in the station's public inspection file at the appropriate times.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 12]
4.	<b>Adherence to Minimum Operating Schedule.</b> Licensee certifies that, during the preceding license term, the station has not been silent (or operating for less than its prescribed minimum operating hours) for any period of more than 30 days.  If No, submit an Exhibit specifying the exact dates in the preceding license term on which the station was silent or operating for less than its prescribed minimum hours.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 13]
5.	<b>Discontinued Operations.</b> Licensee certifies that during the preceding license term, the station has not been silent for any consecutive 12-month period.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 14]
6.	<b>Silent Station</b> Licensee certifies that the station is currently on the air broadcasting programming intended to be received by the public.	<input checked="" type="radio"/> Yes <input type="radio"/> No
7.	<b>Environmental Effects.</b> Licensee certifies that the specified facility complies with the maximum permissible radio frequency electromagnetic exposure limits for controlled and uncontrolled environments.  By checking "Yes" above, the licensee also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from radio frequency electromagnetic exposure in excess of FCC guidelines.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 15]
8.	<b>Radio/Newspaper Cross-Ownership.</b> Licensee certifies that neither the applicant nor any party to this application has an attributable interest in a newspaper which: (1) is published four or more days per week, (2) is in the dominant language in the market, and (3) is published in a	

community entirely encompassed by:	
a. the 1 mV/m contour of one of the FM station(s)?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
b. the 2 mV/m contour of one of the AM station(s)?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
If No to either Question 8.a or 8.b, has the Commission made a finding pursuant to Section 310 (d) of the Communications Act that the newspaper/broadcast combination is in the public interest?	<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 16]

**Section V - TO BE COMPLETED BY FM AND TV TRANSLATOR AND LOW POWER TV LICENSEES ONLY**

1. and 2. [Station Info and Status]			
Low Power Applicants: Answer Question 2a only.			
<b>1. Station Information:</b>			
Call Sign	Facility Identifier	Area Licensed to Serve	
K271AC	59093	City:OJAI	State:CA
<b>2. Operational Status:</b>			
a. <b>Silent Station:</b> Licensee certifies that the station is currently on the air.	<input checked="" type="radio"/> Yes <input type="radio"/> No		
b. <b>Rebroadcast Status:</b> Licensee certifies that the station is currently rebroadcasting the signal of an FM, AM, TV or LPTV station.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A		
If Yes, identify the station being broadcast:			
Call Sign	Facility Identifier	Area Licensed to Serve	
KCRU	59085	City:OXNARD	State:CA
c. <b>Rebroadcast Consent:</b> Licensee certifies that it has obtained written authority from the licensee of the primary station identified above for retransmitting primary station's programming.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A		
<b>1. Station Information:</b>			
Call Sign	Facility Identifier	Area Licensed to Serve	
K272DI	59089	City:FILLMORE	State:CA
<b>2. Operational Status:</b>			
a. <b>Silent Station:</b> Licensee certifies that the station is currently on the air.	<input checked="" type="radio"/> Yes <input type="radio"/> No		
b. <b>Rebroadcast Status:</b> Licensee certifies that the station is currently rebroadcasting the signal of an FM, AM, TV or LPTV station.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A		
If Yes, identify the station being broadcast:			
Call Sign	Facility Identifier	Area Licensed to Serve	
KCRU	59085	City:OXNARD	State:CA
c. <b>Rebroadcast Consent:</b> Licensee certifies that it has obtained written authority from the licensee of the primary station identified above for retransmitting primary station's	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A		

programming.

<b>1. Station Information:</b>			
Call Sign	Facility Identifier	Area Licensed to Serve	
K295AH	84739	City:GOLETA	State:CA
<b>2. Operational Status:</b>			
a. <b>Silent Station:</b> Licensee certifies that the station is currently on the air.			<input checked="" type="radio"/> Yes <input type="radio"/> No
b. <b>Rebroadcast Status:</b> Licensee certifies that the station is currently rebroadcasting the signal of an FM, AM, TV or LPTV station.			<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
If Yes, identify the station being broadcast:			
Call Sign	Facility Identifier	Area Licensed to Serve	
KCRU	59085	City:OXNARD	State:CA
c. <b>Rebroadcast Consent:</b> Licensee certifies that it has obtained written authority from the licensee of the primary station identified above for retransmitting primary station's programming.			<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A

Additional Translator Info [Exhibit 33]

<b>3. For FM Translator Applicants Only:</b>	
a. Licensee certifies that it is in compliance with 47 C.F.R. Section 74.1232(d), which: (1) prohibits the common ownership of a commercial primary FM station and a FM translator station whose coverage contour extends beyond the protected contour of the commercial FM primary station being broadcast, and (2) requires that the FM translator's entire 60 dBu contour is contained within the lesser of: (a) the 2 mV/m daytime contour of the AM primary station being rebroadcast, or (b) a 25-mile radius centered at the AM primary station's transmitter site. (With regard to (1), this restriction also applies to any person or entity having any interest in, or any connection with, the primary FM station.)	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A  See Explanation in [Exhibit 34]
b. Licensee certifies that it is in compliance with 47 C.F.R. Section 74.1232(e) which prohibits an FM translator station whose coverage contour extends beyond the protected contour of the commercial primary station being rebroadcast from receiving any support (except for specified technical assistance), before, during or after construction, directly or indirectly, from the primary station or any person or entity having any interest in, or any connection with, the primary station.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A  See Explanation in [Exhibit 35]
<b>4. For Low Power TV Applicants Only:</b> Licensee certifies that it has filed with the Commission, the station's Broadcast EEO Program Report (FCC Form 396) and has posted the most recent Public File report on the station's website, if required by 47 C.F.R. Section 73.2080(f)(1).	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A  See Explanation in [Exhibit 36]
<b>5. Environmental Effects.</b> Licensee certifies that the specified facility complies with the maximum permissible radio frequency electromagnetic exposure limits for controlled and uncontrolled environments.  By checking "Yes" above, the licensee also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radio frequency electromagnetic exposure in excess of FCC guidelines.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 37]

**Exhibits**

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**Attachment 15**

<b>Description</b>
<a href="#">Radio Frequency Radiation Statement</a>

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## KCRU - RADIO FREQUENCY RADIATION STATEMENT

This Environmental Statement deals with the radio frequency electromagnetic radiation (“RFR”) compliance requirements for Santa Monica Community College District (“SMCCD”) license renewal application for NCE-FM station KCRU, Oxnard, California.

1. RFR Determination: A study was made to verify that the operation of KCRU, in combination with FM station KBBY, which is also located at the site, does not exceed the guidelines set out in FCC OET Bulletin 65, Edition 97-01 with regard to General Population/Uncontrolled Exposure and Occupational/Controlled Exposure.

1.1 Stations Operating from the Site: There are two FM stations that operate from the site with antennas mounted on a 30.5 meter tower.

KCRU Main and auxiliary antennas. The KCRU main antenna is a composite directional antenna, Scala, Model CA5-FM/CP/RM, mounted at an elevation 15 meters above ground level, and a maximum ERP of 0.850 kW. KCRU’s auxiliary antenna is also a Scala, Model CA5-FM/CP/RM, mounted at an elevation of 24 meters above ground level, with an ERP of 0.850 kW.

There is no EPA class for the Scala antenna. Therefore, based upon the vertical radiation pattern of the main Scala composite antenna array, and the auxiliary antenna, the RCA “BFC” antenna was selected as closely matching these antennas.

KBBY-FM: The antenna is a 3-element, rototiller-type, ERI antenna, with one wavelength spacing between elements. The antenna is mounted 21 meters above ground level, with an ERP of 12.5 kW.

1.2 RFR Levels: There are several combinations of main and auxiliary antennas that can be used at any given time. These conditions are shown in the following tables. The highest levels exist under the conditions depicted in Table 1, where KCRU is operating using its main antenna.

TABLE 1 - KCRU MAIN ANTENNA/KBBY-FM MAIN ANTENNA

STATION	RF POWER DENSITY $\mu\text{W}/\text{cm}^2$	GENERAL PUBLIC EXPOSURE LIMITS $200 \mu\text{W}/\text{cm}^2$	OCCUPATIONAL EXPOSURE LIMITS $1000 \mu\text{W}/\text{cm}^2$	DISTANCE FROM TOWER TO MAXIMUM LEVEL
KCRU MAIN	73.1	36.5 %	7.3 %	17 m
KBBY-FM	197.8	98.9 %	19.8 %	11 m
TOTAL		135.4 %	27.1 %	

TABLE 2 - KCRU AUXILIARY ANTENNA/KBBY-FM ANTENNA

STATION	RF POWER DENSITY $\mu\text{W}/\text{cm}^2$	PUBLIC EXPOSURE LIMITS $200 \mu\text{W}/\text{cm}^2$	OCCUPATIONAL EXPOSURE LIMITS $1000 \mu\text{W}/\text{cm}^2$	DISTANCE FROM TOWER TO MAXIMUM LEVEL
KCRU AUX	28.5	14.3 %	2.9 %	28 m
KBBY-FM	197.8	98.9 %	19.8 %	11 m
TOTAL:		113.2 %	22.7 %	

Both stations operating together exceed the maximum public exposure limits of  $200 \mu\text{W}/\text{cm}^2$  by 135.4%. Both stations operating together comply with the occupational exposure limits of  $1000 \mu\text{W}/\text{cm}^2$  with only 27.1% of the total maximum allowed.

2. GENERAL PUBLIC RESTRICTIONS: The Laguna Peak site is a commercial communications site operated by Collins Communications, which is located on private ranch property adjacent to a military communications site for the Pacific Weapons Test Center at Point Magu Naval Air Weapons Station, in Port Hueneme, California. The property is not open to the public and is accessed through a series of locked gates.

Normally, access to the site is made through the military base communications and missile tracking installation above Point Magu. In order to enter the site, a person must have an electronic card key issued by base security to pass through its perimeter entrance. Prior to reaching the Collins site, a second gate must be opened. This gate is locked and only authorized personnel have a key to the lock securing this gate.

On May 3<sup>rd</sup> of this year there was a brush fire that swept through portions of Camarillo and Port Hueneme, and the area where the KCRU transmitter site is located. Fortunately, the brush around the communications site was cleared so the facility was spared. What was destroyed were the natural barriers to where it's theoretically possible for hikers to access the site via a long hike through the neighboring state park.. SMCCD is working with the site owner to provide fencing around the site to prevent general public access to high RFR levels.

ATTACHMENTS - RFR HAZARD PLOTS:

- Figure 1A KCRU Main Antenna - General Public
- Figure 1B KCRU Main Antenna - Occupational Uncontrolled
- Figure 2A KCRU Auxiliary Antenna - General Public
- Figure 2B KCRU Auxiliary Antenna - Occupational Uncontrolled
- Figure 3A KBBY-FM Antenna - General Public
- Figure 3B KBBY-FM Antenna - Occupational Uncontrolled



**Study**

FM  
 TV  
 DTV

**Method**

OET #65  
 OET Mod

Scale =  $\mu\text{W}/\text{sq cm}$

50  100  200  500  1000  2000  3000

Graph Distance

100

**Antenna Parameters**

H kW

V kW

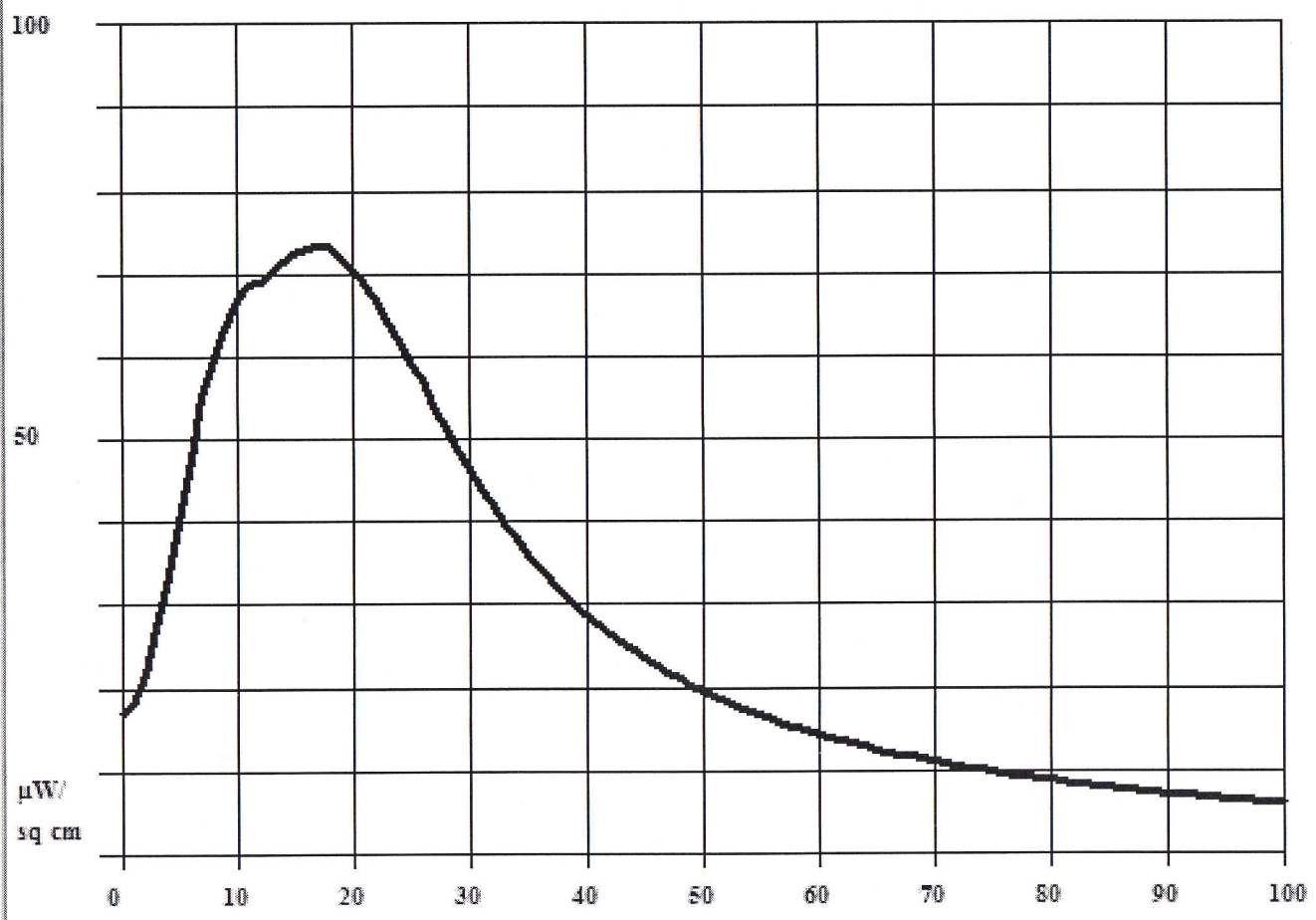
# of Bays  Spacing

COR Meters Above Ground

Dist. in Meters to Tower Base

Title **FIGURE 1A - KCRU MAIN ANTENNA**

RCA "BFC" (EPA)-Type 4, 1 Bay, Spac= 1, H=0.85 kW, V=0.85 kW, 15 MAG



- Phelps-Dodge "Ring Stub" (EPA) ▲
- ERI "Dual Cycloid"
- Jampro "Double V" (EPA)
- ERI/JAMPRO JBCP "Roto" (EPA)
- RCA "BFC" (EPA)**
- RCA "BFG" (EPA)
- Shively 6800 series
- Shively 6810
- Dielectric DCRM
- Dielectric DCRQ
- Dielectric DCRC

Max = 200  $\mu\text{W}/\text{sq cm}$

Pwr Density  $\mu\text{W}/\text{sq cm}$  Controlled

Yes

% of Max  No

Distance in Meters

- Print Tab
- Print Screen
- Disk Write
- To Clipboard
- Other RF



**Study**  
 FM  
 TV  
 DTV

**Method**  
 OET #65  
 OET Mod

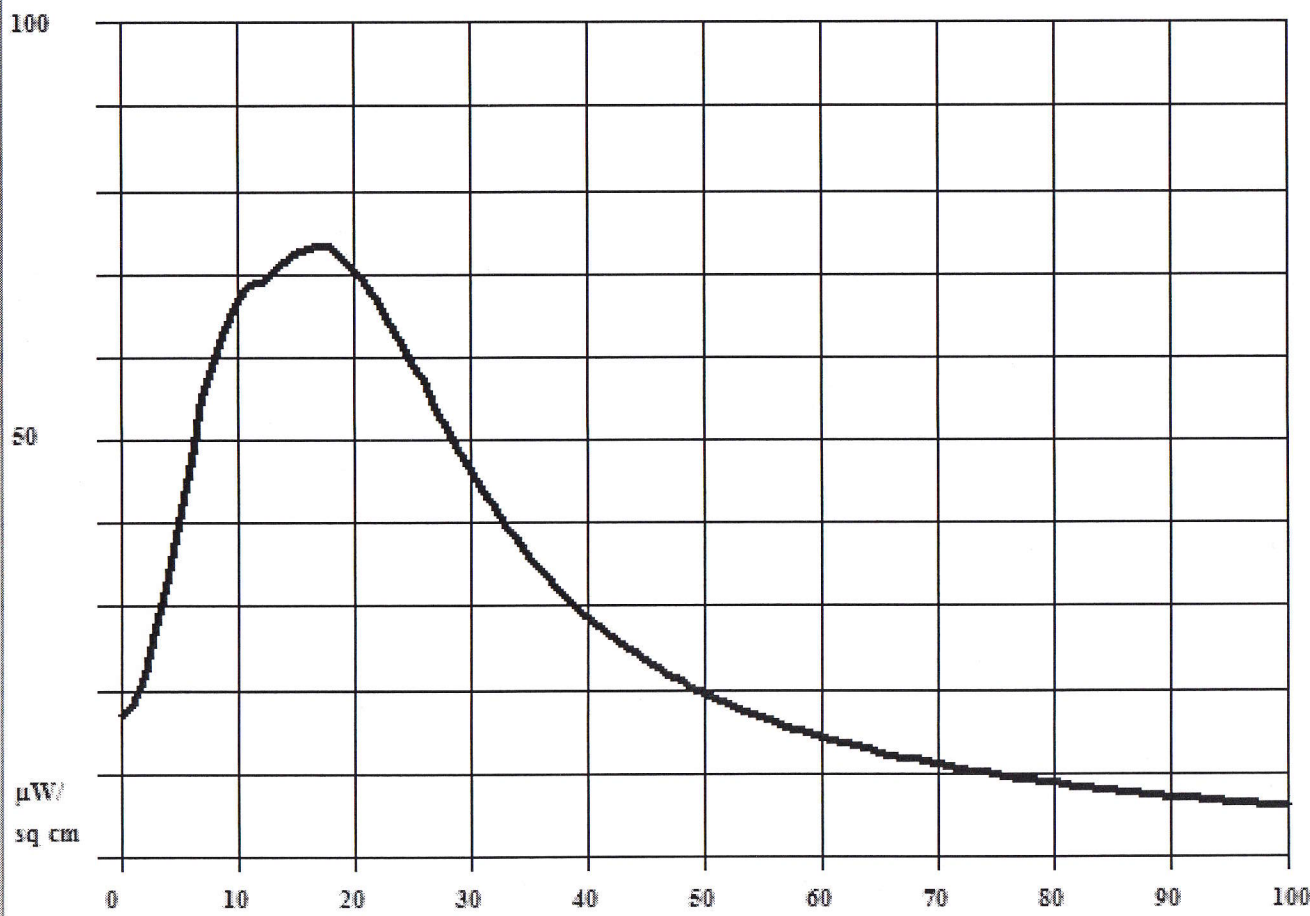
Scale =  $\mu\text{W}/\text{sq cm}$   
 50  100  200  500  1000  2000  3000

Graph Distance

**Antenna Parameters**  
 H kW   
 V kW   
 # of Bays  Spacing   
 COR Meters Above Ground   
 Dist. in Meters to Tower Base

Title **FIGURE 1B - KCRU MAIN ANTENNA**

RCA "BFC" (EPA)-Type 4, 1 Bay, Spac= 1, H=0.85 kW, V=0.85 kW, 15 MAG



- Phelps-Dodge "Ring Stub" (EPA) ▲
- ERI "Dual Cycloid"
- Jampro "Double V" (EPA)
- ERI/JAMPRO JBCP "Roto" (EPA)
- RCA "BFC" (EPA)**
- RCA "BFG" (EPA)
- Shively 6800 series
- Shively 6810
- Dielectric DCRM
- Dielectric DCRQ
- Dielectric DCRC

Max = 1000  $\mu\text{W}/\text{sq cm}$

Pwr Density  $\mu\text{W}/\text{sq cm}$  Controlled  
  Yes  
 No  
 % of Max

Distance in Meters



Study  
 FM  
 TV  
 DTV

Method  
 OET #65  
 OET Mod

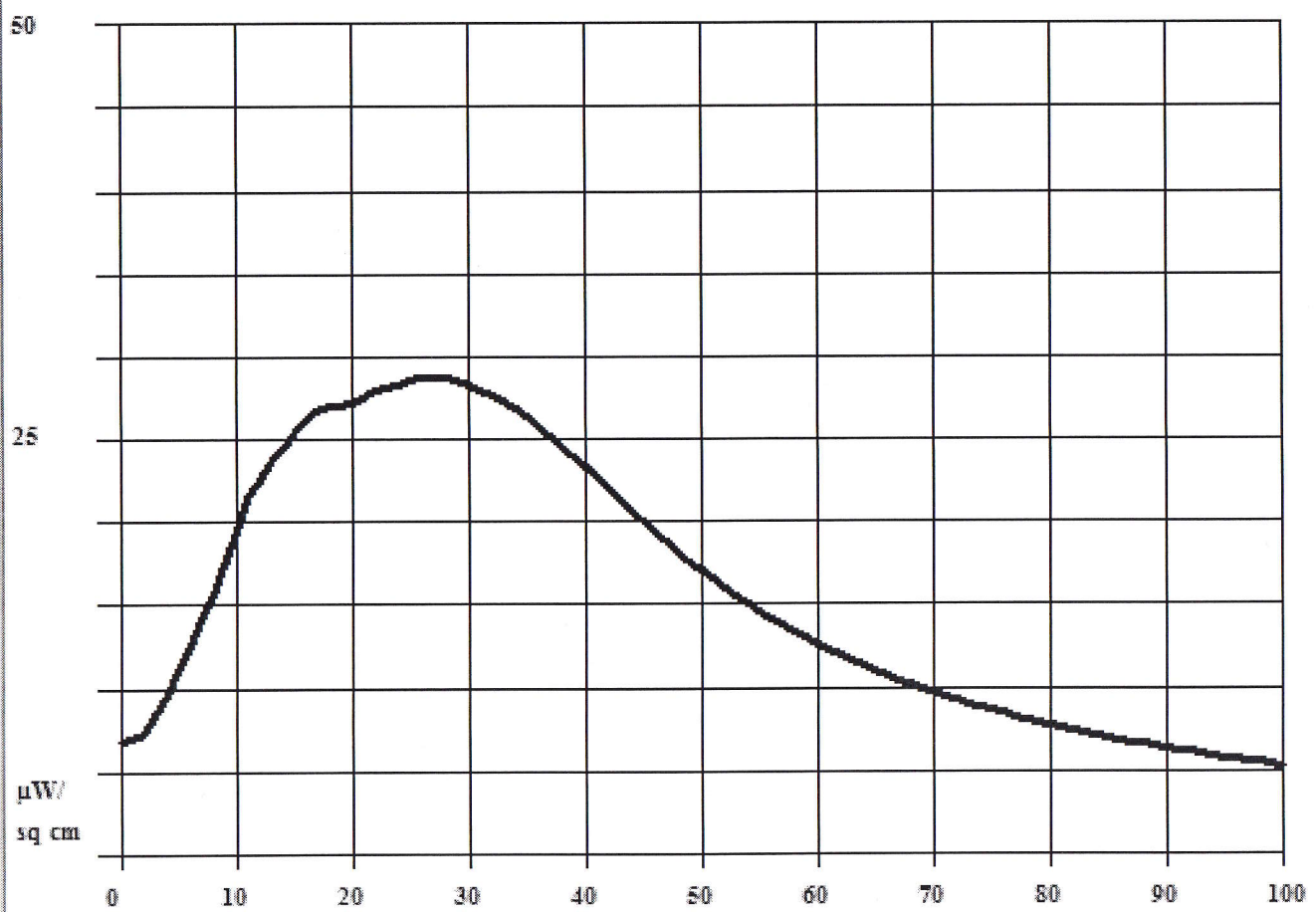
Scale =  $\mu\text{W}/\text{sq cm}$   
 50  100  200  500  1000  2000  3000

Graph Distance

Antenna Parameters  
 H kW   
 V kW   
 # of Bays  Spacing   
 COR Meters Above Ground   
 Dist. in Meters to Tower Base

Title **FIGURE 2A - KCRU AUXILIARY ANTENNA**

RCA "BFC" (EPA)-Type 4, 1 Bay, Spac= 1, H=0.85 kW, V=0.85 kW, 24 MAG



- Phelps-Dodge "Ring Stub" (EPA) ▲
- ERI "Dual Cycloid"
- Jampro "Double V" (EPA)
- ERI/JAMPRO JBCP "Roto" (EPA)
- RCA "BFC" (EPA)**
- RCA "BFG" (EPA)
- Shively 6800 series
- Shively 6810
- Dielectric DCRM
- Dielectric DCRQ
- Dielectric DCRC

Max = 200  $\mu\text{W}/\text{sq cm}$

Pwr Density  $\mu\text{W}/\text{sq cm}$  Controlled  
  Yes  
 No  
 % of Max

Distance in Meters



**Study**  
 FM  
 TV  
 DTV

**Method**  
 OET #65  
 OET Mod

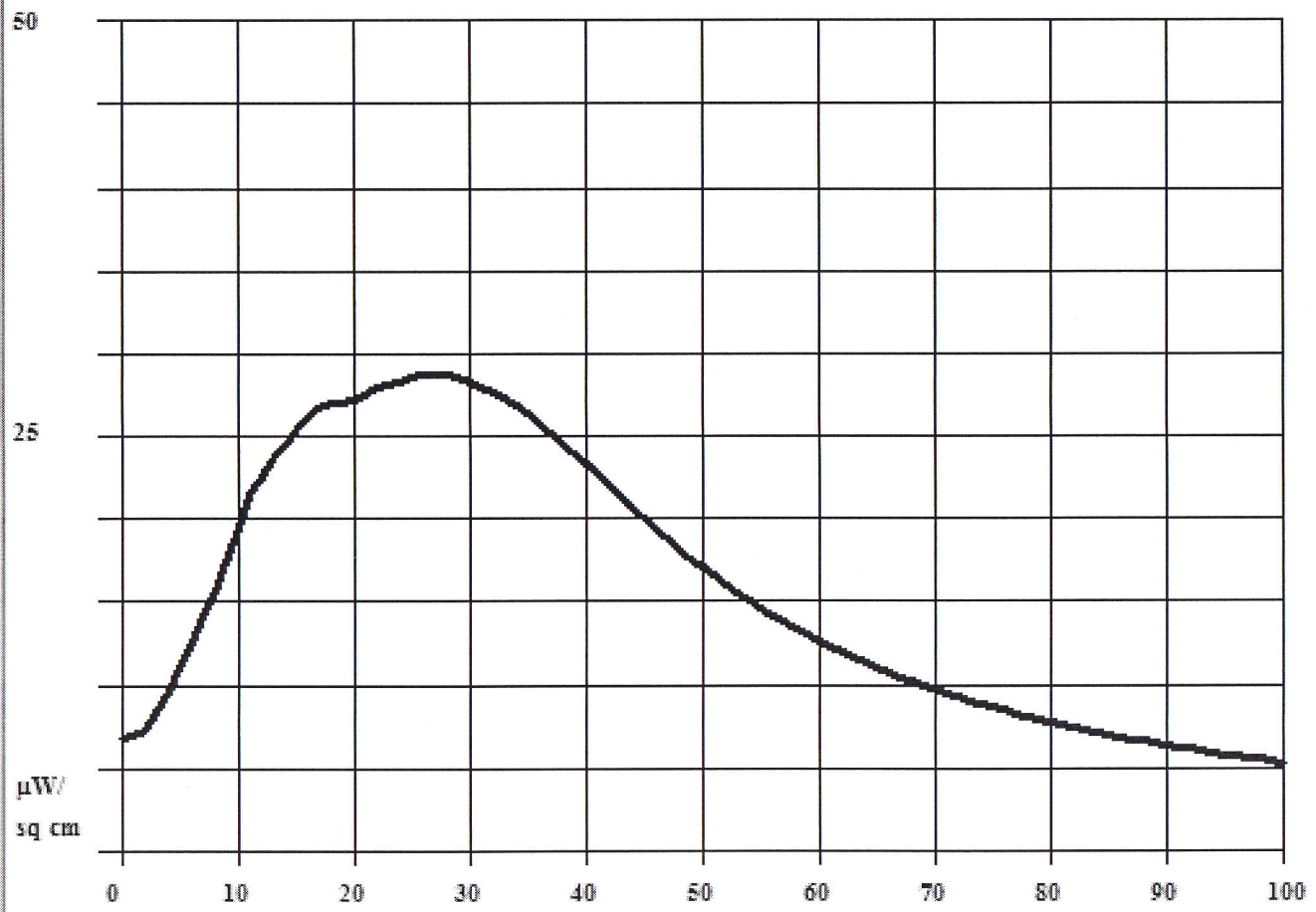
Scale =  $\mu\text{W}/\text{sq cm}$   
 50  100  200  500  1000  2000  3000

Graph Distance  
 100

**Antenna Parameters**  
 H kW    
 V kW    
 # of Bays   Spacing    
 COR Meters Above Ground    
 Dist. in Meters to Tower Base

**Title** FIGURE 2B - KCRU AUXILIARY ANTENNA

RCA "BFC" (EPA)-Type 4, 1 Bay, Spac= 1, H=0.85 kW, V=0.85 kW, 24 MAG



- Phelps-Dodge "Ring Stub" (EPA) ▲
- ERI "Dual Cycloid"
- Jampro "Double V" (EPA)
- ERI/JAMPRO JBCP "Roto" (EPA)
- RCA "BFC" (EPA)**
- RCA "BFG" (EPA)
- Shively 6800 series
- Shively 6810
- Dielectric DCRM
- Dielectric DCRQ
- Dielectric DCRC

Max = 1000  $\mu\text{W}/\text{sq cm}$

Pwr Density  $\mu\text{W}/\text{sq cm}$  Controlled  
  Yes  
 % of Max  No

Distance in Meters



**Study**

FM  
 TV  
 DTV

**Method**

OET #65  
 OET Mod

**Scale =  $\mu\text{W}/\text{sq cm}$**

50  100  200  500  1000  2000  3000

**Graph Distance**

**Antenna Parameters**

H kW

V kW

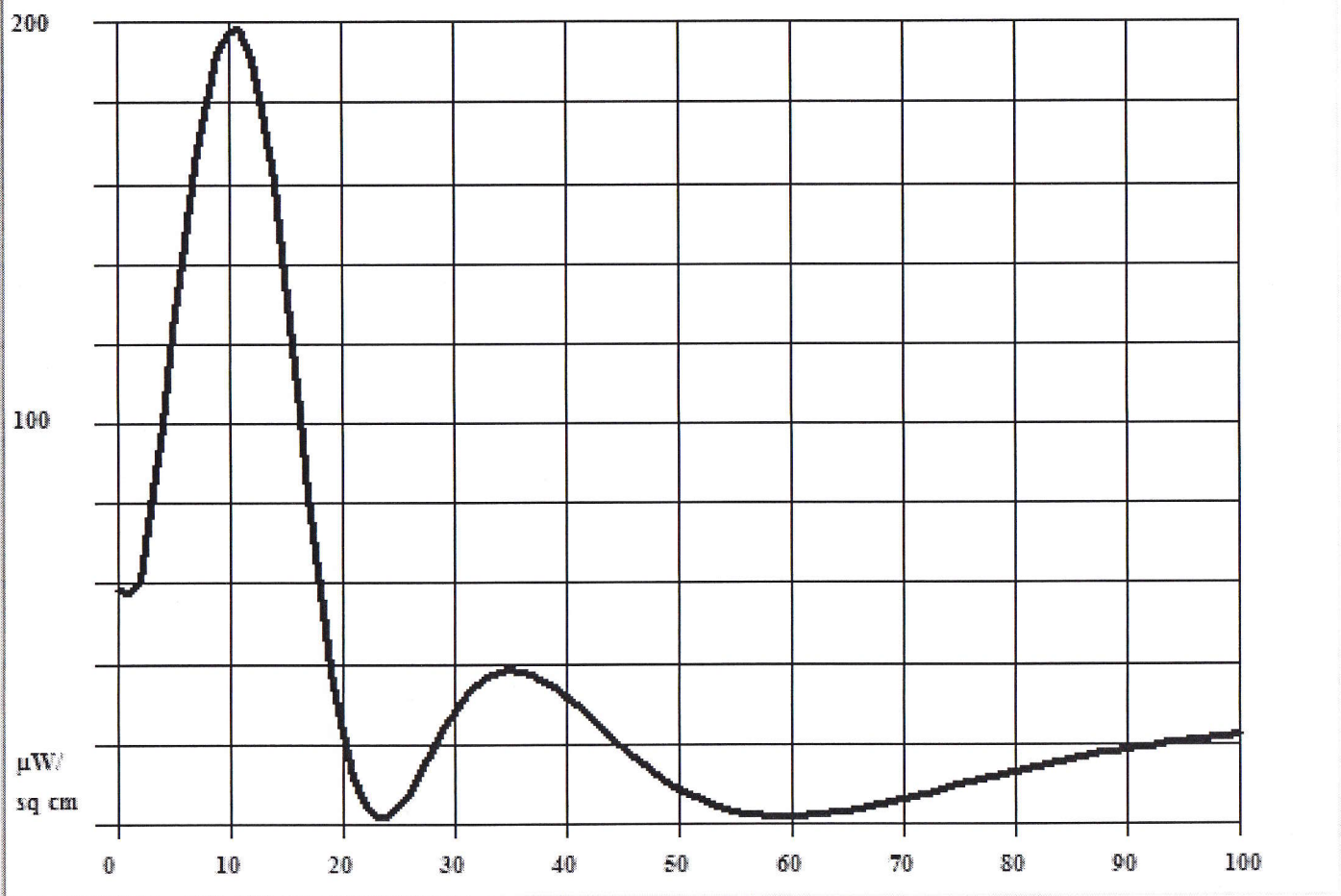
# of Bays  Spacing

COR Meters Above Ground

Dist. in Meters to Tower Base

**Title** FIGURE 3A - KBBY-FM MAIN ANTENNA

ERI/JAMPRO JBCP "Roto" (EPA)-Type 3, 3 Bays, Spac= 1, H=12.5 kW, V=12.5 kW, 21 MA



- Phelps-Dodge "Ring Stub" (EPA)** ▲  
 ERI "Dual Cycloid"  
 Jampro "Double V" (EPA)  
 ERI/JAMPRO JBCP "Roto" (EPA) ▲  
 RCA "BFC" (EPA)  
 RCA "BFG" (EPA)  
 Shively 6800 series  
 Shively 6810  
 Dielectric DCRM  
 Dielectric DCRQ  
 Dielectric DCRC

**Max = 200  $\mu\text{W}/\text{sq cm}$**

**Pwr Density  $\mu\text{W}/\text{sq cm}$  Controlled**

Yes  
 No

**% of Max**

**Distance in Meters**



**Study**  
 FM  
 TV  
 DTV

**Method**  
 OET #65  
 OET Mod

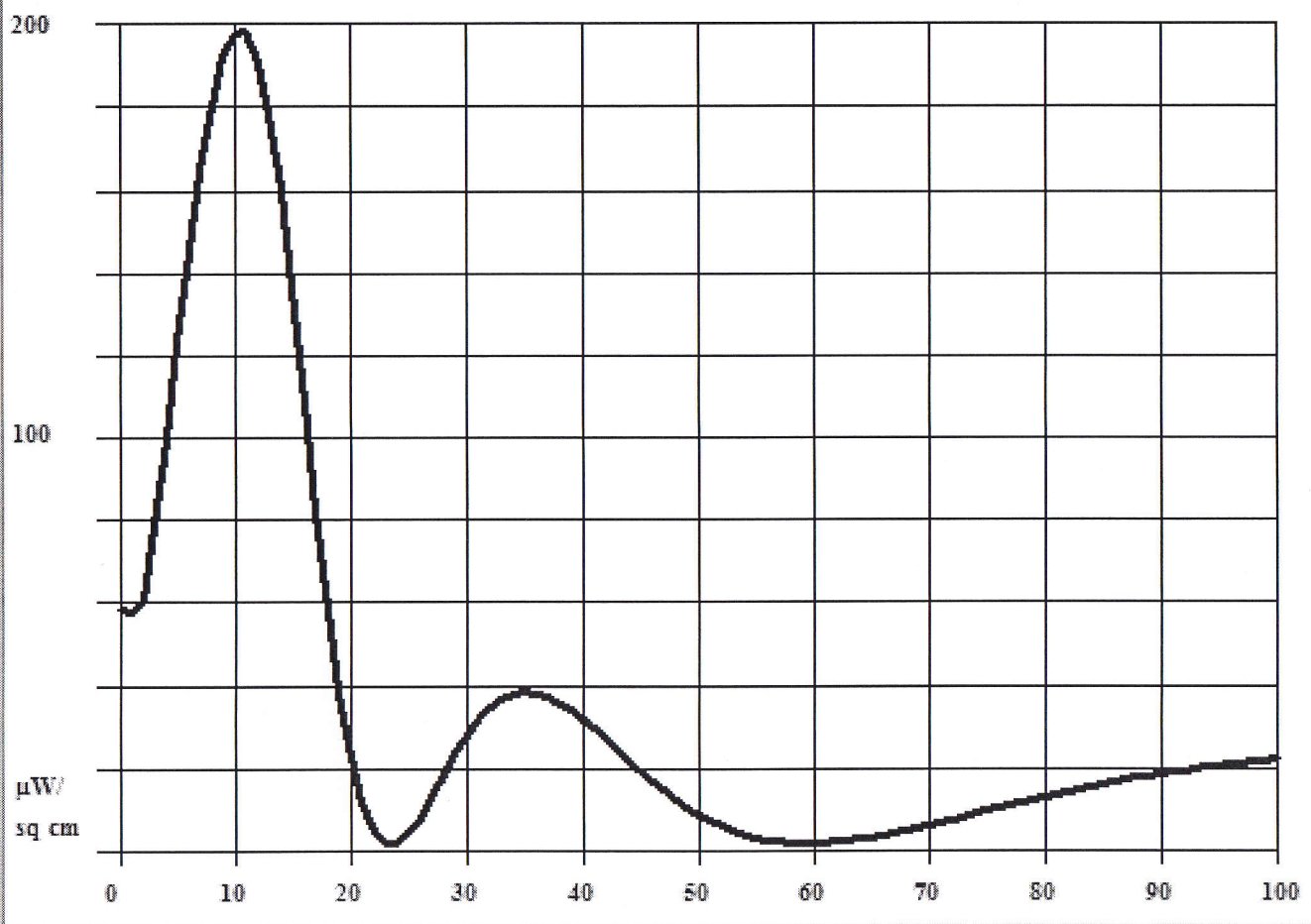
Scale =  $\mu\text{W}/\text{sq cm}$   
 50  100  200  500  1000  2000  3000

▲ Graph Distance  
 100  
 ▼

**Antenna Parameters**  
 H kW   
 V kW   
 # of Bays  Spacing   
 COR Meters Above Ground   
 Dist. in Meters to Tower Base

**Title** FIGURE 3B - KBBY-FM MAIN ANTENNA

ERI/JAMPRO JBCP "Roto" (EPA)-Type 3, 3 Bays, Spac= 1, H=12.5 kW, V=12.5 kW, 21 MA



- Phelps-Dodge "Ring Stub" (EPA) ▲
- ERI "Dual Cycloid"
- Jampro "Double V" (EPA)
- ERI/JAMPRO JBCP "Roto" (EPA)
- RCA "BFC" (EPA)
- RCA "BFG" (EPA)
- Shively 6800 series
- Shively 6810
- Dielectric DCRM
- Dielectric DCRQ
- Dielectric DCRC

Max = 1000  $\mu\text{W}/\text{sq cm}$

Pwr Density  $\mu\text{W}/\text{sq cm}$  Controlled  
 Yes  
 No  
  
 % of Max

Distance in Meters

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