

ORIGINAL

Approved by OMB  
3060-0440  
Expires 12/31/90

FEDERAL COMMUNICATIONS COMMISSION  
FEE PROCESSING FORM

FOR  
FCC  
USE  
ONLY

FCC/MELLON JUN 11 1991

ORIGINAL

Please read instructions on back of this form before completing it. Section I MUST be completed. If you are applying for concurrent actions which require you to list more than one Fee Type Code, you must also complete Section II. This form must accompany all payments. Only one Fee Processing Form may be submitted per application or filing. Please type or print legibly. All required blocks must be completed or application/filing will be returned without action.

SECTION I

APPLICANT NAME (Last, first, middle initial)

Kay Sadlier-Gill

## INSTRUCTIONS FOR COMPLETING FEE PROCESSING FORM, FCC FORM 155, May 1990

- (1) "Applicant Name" - Enter the name (last, first, middle initial) of the applicant as it appears on the original application or filing being submitted with this Fee Processing Form. If company, enter name which is used commercially.
- (2) "Mailing Address (Line 1)" - Enter the street address or post office box number to which the applicant wishes correspondence sent.
- (3) "Mailing Address (Line 2)" - This line may be used for further identification of the address if additional space is required.
- (4) "City" - Enter the name of the city associated with the given street address.
- (5) "State or Country" - Enter the appropriate two-digit state abbreviation as prescribed by the U.S. Postal Service. If address is foreign, enter the appropriate country name here.
- (6) "ZIP Code" - Enter the appropriate five or nine-digit ZIP code prescribed by the U.S. Postal Service.
- (7) "Call Sign or Other FCC Identifier" - Enter an applicable call sign or unique FCC identifier, if any, as shown on your attached applica-

LAW OFFICES  
BROWN FINN & NIETERT, CHARTERED  
SUITE 660  
1920 N STREET, N.W.  
WASHINGTON, D.C. 20036  
—  
TEL (202) 887-0600  
FAX (202) 457-0126

June 10, 19910

Donna R. Searcy, Secretary



P.O. BOX 1468 PH. 714-927-8099  
HEMET, CA 92343

1790

June 6 19 91

90-3419  
1222

PAY TO THE ORDER OF Federal Communications Commission \$ 565.00

Five Hundred Sixty Five dollars and 00/100 DOLLARS



**The Bank of Hemet**

Eastside Office  
1600 East Florida Avenue  
Hemet, California 92344-6318

FOR Filing fee - 301 Minor Mod.

*Katy Gill*

⑈001790⑈ ⑆122234194⑆ 02028085⑈01

101.3

APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION

For COMMISSION Fee Use Only	FEE NO:	For APPLICANT Fee Use Only Is a fee submitted with this application? <input type="checkbox"/> Yes <input type="checkbox"/> No If fee exempt (see 47 C.F.R. Section 1.1112), indicate reason therefor (check one box): <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity
	FEE TYPE:	
	FEE AMT:	
	ID SEQ:	
		FOR COMMISSION USE ONLY BMPH-910611IF FILE NO.

Section 1 - GENERAL INFORMATION

1. Name of Applicant  Kay Sadlier-Gill			Send notices and communications to the following person at the address below: Name  Kay Sadlier-Gill		
Street Address or P.O. Box  P.O. Box 1468			Street Address or P.O. Box  P.O. Box 1468		
City Hemet	State CA	ZIP Code 92343	City Hemet	State CA	ZIP Code 92343
Telephone No. (Include Area Code) (714) 927-8099			Telephone No. (Include Area Code) (714) 927-8099		

2 This application is for:  AM  FM  TV

(a) Channel No. or Frequency 267A	(b) Principal Community Idyllwild	City Idyllwild	State CA
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(c) Check one of the following boxes:

- Application for NEW station
- MAJOR change in licensed facilities; call sign: \_\_\_\_\_
- MINOR change in licensed facilities; call sign: \_\_\_\_\_
- MAJOR modification of construction permit; call sign: \_\_\_\_\_  
File No. of construction permit: \_\_\_\_\_
- MINOR modification of construction permit; call sign: KATY-FM  
File No. of construction permit: BMPH-901115ID\*
- AMENDMENT to pending application; Application file number: \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section 1 and those other portions of the form that contain the amended information.

3. Is this application mutually ex: 101.5MHZ  Yes  No  
BMPH -910611IF KATY-FM  
If Yes, state: Call letter: IDYLLWILD CA State: \_\_\_\_\_  
KAY SADLIER-GILL

\*License applied for: BLH-891211KE, as amended 11/15/90

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

Yes  No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 896-A).

SECTION VII - CERTIFICATIONS

1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 73.3580?

Yes  No

2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose?

Yes  No

Exhibit No.

If No, attach as an Exhibit, a full explanation.

3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Name of Person Contacted Douglas Pumphrey

Telephone No. (include area code) (714) 659-2117

Person contacted: (check one box below)

Owner

Owner's Agent

Other (specify)

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.  
U.S. CODE, TITLE 18, SECTION 1001.

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant Kay Sadlier-Gill	Signature <i>Kay Sadlier-Gill</i>
Date June 7, 1991	Title Individual Applicant

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT  
AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 71 hours 45 minutes to 301 hours 30 minutes with an average of 118 hours 28 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0027), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

### CONTINGENT WAIVER REQUEST

The spacing study included as Exhibit E-1 to the instant application indicates that the proposed transmitter site is short-spaced to a permit issued to Station KGB-FM, a first adjacent channel station licensed to San Diego, California. A review of the Commission's files indicates, however, that the permit in question (File No. BPH-861125IG, granted September 14, 1987) expired over two years ago, *i.e.*, on March 15, 1989. No request to extend or reinstate that permit has been filed. That permit, which should have long since been deleted from the Commission's data base, therefore should not bar the filing or grant of an application by KATY-FM at this time.

Moreover, the Commission's files also reflect that the proposed relocation of the KGB-FM transmitter to Cowles Mountain, as described in the KGB-FM application for permit, was part of a plan to establish a new, joint transmission site by several FM broadcast stations in the area, including KLZZ-FM, KPBS-FM, KSD-FM and KSON-FM. Thus, KGB-FM first secured a permit to operate from Cowles Mountain in 1984 (File No. BPH-840615AH) but could not construct due to local land use restrictions. After twice extending that initial permit, the Commission therefore cancelled it by letter dated November 25, 1987. KGB-FM's second, 1987 permit was designed to satisfy local concerns by proposing a site somewhat lower on the mountainside and a shorter tower than were specified in its initial permit, but this plan, too, was rejected by city and county land use authorities. (Cowles Mountain is a regional park which is jointly owned by the City and County of San Diego.) Accordingly, KGB-FM could not construct the modified facilities specified in its permit and has abandoned the project.

In light of the above, it is clear that the KGB-FM permit reflected in Ms. Sadlier-Gill's spacing study should have been cancelled and deleted from the Commission's FM data base. It also is clear that the instant application is fully-spaced to all existing stations, permits and allocations. Accordingly, the KGB-FM permit should be cancelled and the KATY-FM application should be granted as consistent with all pertinent spacing requirements. If, however, the KGB-FM permit must be included in the FM data base because it has not been formally canceled by the Commission, then the applicant respectfully requests waiver of the spacing regulations to the extent that such waiver is necessary before her instant application may be accepted for filing and granted.

<b>Section V-B - FM BROADCAST ENGINEERING DATA</b>	<b>FOR COMMISSION USE ONLY</b> File No. _____ ASB Referral Date _____ Referred by _____
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Name of Applicant  
**KAY SADLER-GILL**

Call letters <i>(if issued)</i> <b>KATY-FM</b>	Is this application being filed in response to a window? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, specify closing date: <u>      DNA      </u>
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Purpose of Application: *(check appropriate boxes)*

- |   |   |
|---|---|
| <input type="checkbox"/> Construct a new (main) facility                                  | <input type="checkbox"/> Construct a new auxiliary facility                         |
| <input checked="" type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input type="checkbox"/> Modify licensed main facility                                    | <input type="checkbox"/> Modify licensed auxiliary facility                         |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Antenna supporting-structure height  | <input checked="" type="checkbox"/> Effective radiated power |
| <input checked="" type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency                           |
| <input checked="" type="checkbox"/> Antenna location                     | <input type="checkbox"/> Class                               |
| <input type="checkbox"/> Main Studio location                            | <input type="checkbox"/> Other <i>(Summarize briefly)</i>    |

File Number(s)       BMPH-9011151D      

1. Allocation:

Channel No.	Principal community to be served:			Class <i>(check only one box below)</i>
	City	County	State	
267	Idyllwild	Riverside	CA	<input checked="" type="checkbox"/> A <input type="checkbox"/> B1 <input type="checkbox"/> B <input type="checkbox"/> C3 <input type="checkbox"/> C2 <input type="checkbox"/> C1 <input type="checkbox"/> C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark. **Inspiration Point, at the west end of Double View Drive, 3.38 km southwest of the center of Idyllwild.**

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	33 °	43 '	33 "	Longitude	116 °	44 '	58 "
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3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)?  Yes  No

If Yes, give call letter(s) or file number(s) or both.       DNA



10. Is a directional antenna proposed?

Yes  No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.  
DNA

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

Yes  No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.  
DNA

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

Yes  No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.  
DNA

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

Yes  No \*

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

Yes  No \*

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.  
DNA

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.  
\*

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
DNA

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibit(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

Yes  No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)*

Exhibit No.  
DNA

\* Answers reflect permit BPH-8611251G, which expired March 14, 1989, but still appears in the FCC engineering database. See contingent waiver request with respect to this permit.

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.  
E-4

16. Attach as an Exhibit (*name the source*) a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
E-5

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 3.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 259 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 3,658 sq. km.      Population 187,762 (1980 U.S. Census)

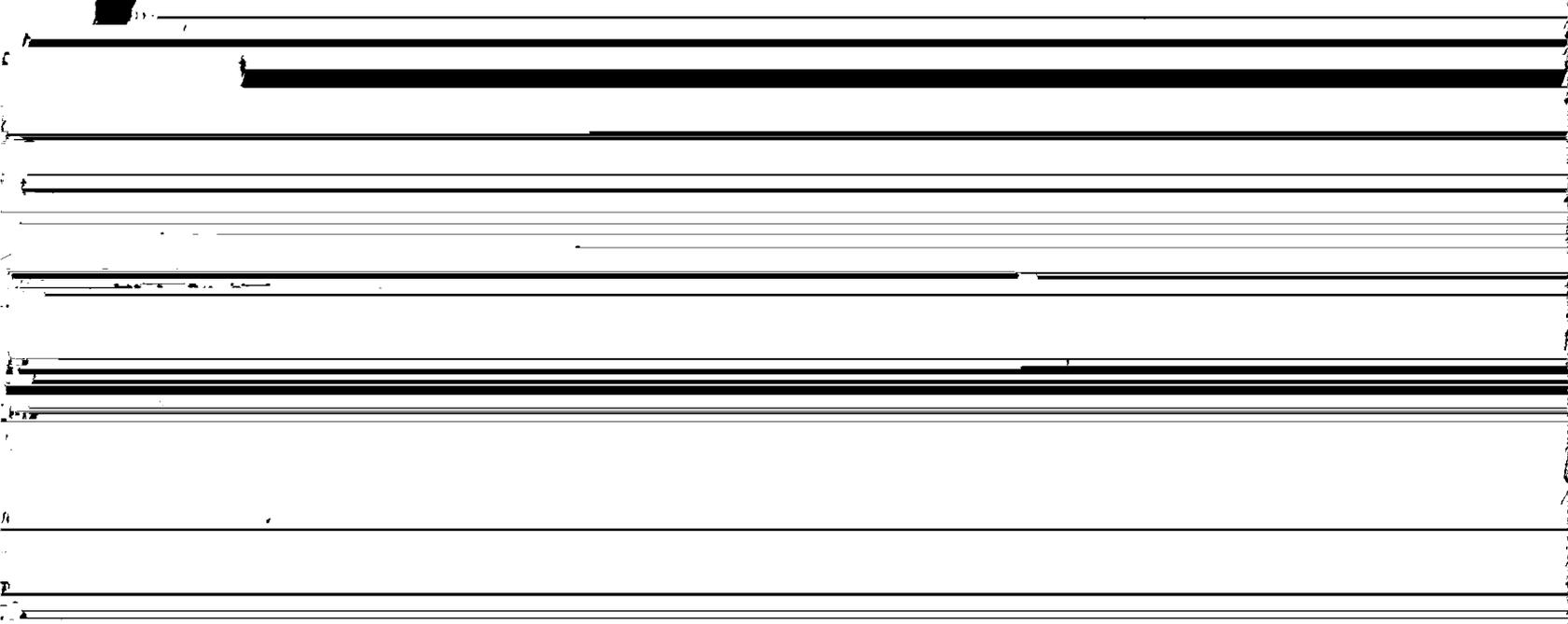
18. For an application involving an auxiliary facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
DNA

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *to be calculated in accordance with 47 C.F.R. Section 72.2171*



Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
58.5	-370.4	5.89	10.59
0	-164.2	5.89	10.59
45	-629.1	5.89	10.59
90	-33.8	5.89	10.59
135	239.6	16.57	28.95
180	366.0	20.53	35.71
225	575.2	26.08	44.97
270	949.2	34.17	56.03
315	492.7	23.83	41.16

\*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement (See 47 C.F.R. Section 1.1307 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?  Yes  No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.  
DNA

If No, explain briefly why not. See Exhibits E-1, E-8 and E-11

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) Lawrence L. Morton, P.E.	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature 	Address (Include ZIP Code) 1231 Mesa Oaks Lane Mesa Oaks, CA 93436-2309
Date 03-JUN-91	Telephone No. (Include Area Code) (805) 733-4275

**ENGINEERING EXHIBITS  
IN SUPPORT OF APPLICATION  
FOR MODIFICATION  
OF CONSTRUCTION PERMIT**

June 3, 1991

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Kay Sadlier-Gill  
FM Channel 267A □ 101.3 Megahertz  
Idyllwild, California

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LAWRENCE L. MORTON ASSOCIATES  
1231 MESA OAKS LANE  
MESA OAKS, CALIFORNIA 93436-2309  
(805) 733-4275 / FAX (805) 733-4793

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E-2	FAA Form 7460-1, Notice of Proposed Construction
E-3	Vertical Plan Sketch of Antenna Supporting Structure
E-4	Full-Size 7.5 Minute Topographic Map of Transmitter Site and Vicinity
E-5	Map of Proposed Coverage Contours
E-6	Terrain Profile Graphs
E-7	Predictions of F(50,50) Field Strength at Points Along Terrain Profile Graphs Using Longley-Rice Propagation Model
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## **EXHIBIT E-1 ENGINEERING STATEMENT**

The information and data contained within these Engineering Exhibits were prepared on behalf of Kay Sadlier-Gill, in support of an Application for Modification of Construction Permit, BMPH-901115ID, to modify the authorized facilities of Class A station KATY-FM, Channel 267, 101.3 Megahertz. KATY-FM is authorized to service the community of Idyllwild, California.

### **I. ANTENNA AND TRANSMITTER LOCATION**

The proposed transmitter site is located 3.38 kilometers (2.1 miles) southwest of the center of Idyllwild, California, at the west end of Double View Drive within the County of Riverside. The site is located within land controlled by the U.S. Forest Service. The ground elevation is 1621.5 meters (5320 feet) AMSL.

The geographical coordinates of the proposed site are:

North Latitude: 33 degrees, 43 minutes, 33 seconds  
West Longitude: 116 degrees, 44 minutes, 58 seconds

There are no authorized FM nor full service television stations within 10 kilometers (6.2 miles) of the proposed site nor AM broadcast stations within 3.2 kilometers (2.0 miles).

The topographic data of exhibit E-6C along the 58.5 degree bearing shows the relationship between the site and the U.S.G.S. centroid geographic coordinates for the community of Idyllwild.

The proposed supporting structure will be a guyed steel tower 26.8 meters (88 feet) in height including top-mounted lighting beacon. The antenna radiation center will be 22.6 meters (74 feet) above ground. Exhibit E-3 shows a vertical plan sketch of the proposed tower and antenna configuration. At the specified antenna height, by methods later described, the height above average terrain was determined to be 224.5 meters (736.4 feet).

The proposed transmitter site is located 128.5 kilometers (79.8 miles) from the nearest point on the U.S.-Mexican Border and, therefore, falls under the jurisdiction of the Agreement Between The United States of America and The United Mexican States Concerning Frequency Modulation Broadcasting In The 88 To 108 MHz Band of 1972. According to the curves of Annex IV within the Agreement, the maximum permissible ERP for a Class A station with a height above average terrain of 224.5 meters is 0.37 kilowatts.

However, a Class A channel study from the proposed site reveals that Channel 267 meets the minimum separation requirements of §73.207(b)(1) Table A with respect to domestic

allotments and assignments. Furthermore, the separation requirements of §73.207(b)(3) Table C are met with respect to Mexican stations and allotments as though Channel 267 were a Class B allotment. Consequently, Channel 267 can be allotted domestically as a fully spaced 6 kW Class A channel and internationally as a Class B channel.

Since it is the applicant's desire to maximally utilize Channel 267 at Idyllwild, this application specifies a domestic Class A facility which exceeds the maximum permissible Class A facilities under the above-referenced international Agreement. Therefore, the applicant respectfully requests the International Branch to notify the Mexican government of the applicant's intention to use Channel 267 with Class B facilities.

A Class A FM station with a HAAT of 224.5 meters operating with an effective radiated power of 1.143 kW will produce a class contour distance of 28 kilometers in accordance with the requirements of §73.211(b)(2) of the Commission's Rules. Therefore, an effective radiated power of 1.15 kilowatts (1.143 kW rounded to the nearest 0.05 kW according to §73.212(a)), is herein proposed.

## II. TECHNICAL PROPOSAL

The applicant proposes to utilize a Harris Corporation model HT 1FM broadcast transmitter with a rated maximum power output of 1.05 kW. An Electronics Research, Incorporated, Model 200-3AE three-bay circularly-polarized, nondirectional FM antenna will be employed. This antenna has a power gain of 1.928 dB (1.5588  $A_p$ ). To produce an effective radiated power of 1.15 kilowatts, an antenna input power of 0.7377 kW is required.

Andrew Corporation type HJ5-50A 7/8" air-dielectric Heliac cable is proposed with a total line length of 38.1 meters (125 feet). The attenuation through this line at the operating frequency is 0.3723 dB per 100 feet.

It is proposed to operate the Harris Corporation transmitter with a power output of 0.8212 kW. With a loss of 0.0835 kW (0.4654 dB) in the transmission line, the resultant line efficiency is 89.8375 percent. Coupled with the above specified antenna gain, this combination will produce an ERP of 1.15 kW.

## III. PREDICTED COVERAGE CONTOURS

The locations of the predicted service contours shown in exhibits E-5 and E-10 were computed according to computer methods outlined in F.C.C. publication PB-249144, Field Strength Calculations for TV And FM Broadcasting. The computer methods involve the use of digitized data taken directly from the graph of §73.333 Figure 1. Intermediate values are obtained through the use of bivariate interpolation techniques for surface fitting.

The average elevations from 3 to 16 kilometers (2 to 10 miles) on radials for each 45 degrees of azimuth starting with True North from the antenna were determined from topographic

data obtained from the computerized 30-second point elevation database version of Elevation Data For North America, available from the Department of Commerce, National Geophysical Data Center, National Oceanic and Atmospheric Administration. A total of 131 points along each radial were linearly interpolated according to the requirements of §73.312(d).

The height of the antenna radiation center above average terrain was determined from these data. Finally, the height above average terrain (HAAT) was computed by averaging the radial elevations below the antenna radiation center in accordance with §73.313(d).

Exhibit E-10 is a cartographic representation of the proposed 70 and 60 dB $\mu$  F(50,50) contours overlaid with terrain shielding lines. The distances to the contours were based on the antenna radiation center above average terrain elevations from 3 to 16 kilometers (2 to 10 miles) on 360 radials spaced at one degree azimuthal intervals, as extracted from the aforementioned terrain database.

#### IV. POPULATION AND AREA CALCULATIONS

The 60 dB $\mu$  (1.0 mV/m) contour based on 360 computed bearings was decomposed and described mathematically by a polygonal area which was used in conjunction with the computerized Master Area Reference File 1980 Census database made available by the U.S. Department of Commerce, Bureau Of The Census, to determine the population residing within the predicted 60 dB $\mu$  contour.

The smallest census levels considered within Minor Civil Divisions and Census County Divisions include Tracts and Block Groups within tracted and block-numbered areas, Enumeration Districts within tracted and partially block-numbered or nonblock numbered areas, and Block Numbering Areas within areas not tracted. When the centroid coordinates fell within the predicted contour, the entire population was considered to reside within the contour. When the centroid fell outside the contour, no portion of the population was counted.

The land area within the 60 dB $\mu$  contour was computed using numerical integration employing the computed distances to the contour along the aforementioned nine bearings. Distances to intermediate azimuths of one degree were obtained mathematically by piecewise third-order polynomial approximations.

#### V. LONGLEY-RICE FIELD STRENGTH PREDICTIONS

Exhibits E-7A through E-7I are a series of graphs depicting the expected F(50,50) signal in dB $\mu$  as a function of distance along each of the nine radials shown in exhibits E-6A through E-6I.

To determine the signal strength at each point along a radial, the vertical plane radiation characteristics of the three-bay  $\lambda$ -spaced-element FM broadcast antenna with 0.0 degrees beam tilt and 0.0 percent null fill were computed at each vertical depression angle from horizontal.

The vertical angle was obtained by assuming a transmitting antenna radiation center of 1644.1 meters (5394 feet) above mean sea level, and a receiving antenna height of 9 meters (30 feet) above ground at each point considered, and the horizontal distance to such point.

In cases where a point was shielded from direct line-of-sight from the transmitting antenna, the vertical angle was taken to be the angle to the top of the highest apparent obstruction between the transmitting antenna and the point of interest assuming an effective earth radius  $4/3$  that of the actual radius to account for atmospheric refraction.

The field strength at each point was then computed using a computerized implementation of the tropospheric radio propagation model developed at the Institute for Telecommunications Sciences and Aeronomy, Environmental Science Services Administration, National Bureau of Standards, by P. L. Rice, Anita G. Longley, Kenneth A. Norton and A. P. Barsis, and published for the first time in 1965. This model, known as the Longley-Rice propagation model is also commonly referred to as "Tech Note 101".

The model depends on propagation path geometry and atmospheric refractivity near the surface of the earth. Calculations of expected transmission loss for paths within the radio horizon are based on geometric-optics ray theory. For paths with a common horizon, Fresnel-Kirchoff knife-edge diffraction theory is applied. For double horizon paths that extend only slightly over the horizon, a modification of the Van der Pol-Bremmer method for computing field intensity in the far diffraction region is used. For longer paths, extending well beyond the radio horizon, predictions are based on forward scatter theory. When some doubt exists as to which propagation

## VII. DISTANCE TO BLANKETING CONTOUR

By use of the formulas outlined in §73.318(a), the distance to the 115 dB $\mu$  (562 mV/m) blanketing contour is computed to be 0.423 kilometers (0.263 miles).

The aforementioned Census database was used to determine the population residing within the blanketing contour. Down to the smallest census levels, there are no census records with centroid geographic coordinates within the database for the area encompassed by the blanketing contour. To approximate the population within the contour, the population residing within the proposed 70 dB $\mu$  contour was evaluated at 73,353 persons. Assuming uniform distribution of these residents within the 1,239.7 square kilometers encompassed by the 70 dB $\mu$  contour, the blanketed population is estimated at 33.

In compliance with §73.318, the applicant will accept full responsibility for resolving all reasonable complaints of new blanketing interference at no cost to the complainant, except those resulting from malfunctioning or mistuned receivers, improperly installed antenna systems, high gain antennas, antenna booster amplifiers, mobile receivers, and non-RF devices such as tape recorders, phonographs and hi-fi amplifiers. In these exception cases, the applicant will provide technical information on possible remedies for blanketing interference.

## VIII. MINIMUM SPACING REQUIREMENTS

Table One shows a listing of the nearest licensed facilities and allocations currently on file along with the required distance separations for pertinent channels. For clarity, facilities which are greater than 300 kilometers beyond the minimum required separations are not shown.

As required by §73.207(b)(1) all minimum distance separation requirements have been met except with respect to a construction permit for KGB-FM which expired over two years ago for which KGB-FM has not requested an extension. [See accompanying contingent waiver request.] Additionally, a check of all existing and proposed FM operations 53 and 54 channels (10.6 and 10.8 Megahertz) removed from channel 267 were examined and it was found that the proposed operation is in compliance with these separation requirements. With respect to Mexican

**TABLE ONE**  
**ALLOCATION-PERTINENT STATIONS**  
**AND SPACING REQUIREMENTS OF §73.207(b)**

<b>CALL LETTERS</b>	<b>CHANNEL /CLASS</b>	<b>NORTH LATITUDE</b>	<b>WEST LONGITUDE</b>	<b>ACTUAL DISTANCE</b>	<b>REQUIRED DISTANCE</b>
KILA	213-C	35° 56' 44"	115° 02' 34"	292	29
ALOC	214-B	32° 38' 00"	114° 51' 00"	215	25
KPFK	214-B	34° 13' 45"	118° 04' 03"	134	15
ALOC	264-B	30° 22' 16"	115° 59' 10"	380	65
KATJ	264-A	34° 36' 38"	117° 17' 18"	110	31
KFMB-FM	264-B	32° 50' 17"	117° 14' 56"	109	69
KSLX	264-C	33° 19' 53"	112° 03' 47"	437	95

**IX. CONCLUSION**

It is believed that the facility proposed herein, is in compliance with all applicable F.C.C. requirements and International Agreements except possibly, §73.207(b) with respect to KGB-FM, for which a contingent waiver is requested.

It is further believed that all methods employed in making the determinations contained within these Engineering Exhibits were in accordance with applicable F.C.C. Rules and Regulations and Good Engineering Practice.



# AFFIDAVIT

State of California                    )  
  )    ss:  
County of Orange                    )

Lawrence L. Morton, being first duly sworn upon oath, deposes and says:

- That he is a qualified engineer,
- That he is a Registered Professional Engineer in the State of California,
- That he is a member of the Association of Federal Communications Consulting Engineers,
- That his qualifications are a matter of record with the Federal Communications Commission,
- That he has prepared many broadcast applications and engineering exhibits which have been filed with and granted by the Federal Communications Commission,
- That he has carried out such engineering work and that the results thereof are attached hereto and form part of this affidavit, and
- That the foregoing statement and the report regarding the aforementioned engineering work are true and correct of his own knowledge.

Date: June 3, 1991



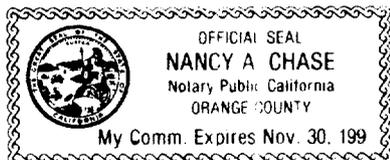
\_\_\_\_\_  
Lawrence L. Morton, P.E.

On June 3, 1991, before me, Nancy A. Chase, a Notary Public, in and for the State of California, personally appeared Lawrence L. Morton known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

My Commission expires 11/30/94



\_\_\_\_\_  
Notary Public



 US Department of Transportation <b>Federal Aviation Administration</b>	NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION	Aeronautical Study Number
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<b>1. Nature of Proposal</b>		<b>2. Complete Description of Structure</b>
A. Type <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration	B. Class <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (Duration _____ months)	A. Include effective radiated power and assigned frequency of a <u>existing, proposed or modified</u> AM, FM, or TV broadcast stations utilizing this structure. B. Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports. C. Include information showing site orientation, dimensions, and construction materials of the proposed structure.  Class A FM Channel 267 ERP = 1.15 kW, circularly polarized ARC = 74 feet AG 5394 feet AMSL HAAT = 736.4 feet

**3A. Name and address of individual, company, corporation, etc. proposing the construction or alteration.** *(Number, Street, City, State and Zip Code)*

(714 ) 927-8099  
 area code Telephone Number

Ms. Kay Sadlier-Gill  
 Radio Station KATY-FM  
 43613 E. Florida Avenue, Suite H  
 Hemet, CA 92344

**B. Name, address and telephone number of proponent's representative if different than 3 above**

Lawrence L. Morton, P.E.  
 1231 Mesa Oaks Lane  
 Mesa Oaks, CA 93436-2309  
 (805) 733-4275

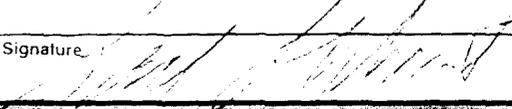
<b>4. Location of Structure</b>			<b>5. Height and Elevation</b> <i>(Complete to the nearest foot)</i>	
A. Coordinates <i>(To nearest second)</i>  33° 43' 33" N 118° 44' 58" W	B. Nearest City, or Town, and State Idyllwild, CA  (1) Distance to 4B 2.10 Miles  (2) Direction to 4B 58.5° TN	C. Name of nearest airport, heliport, flightpark or seaplane base Ernst Field  (1) Distance from structure to nearest point of nearest runway 11.70 mis.  (2) Direction from structure to airport 220.65° TN	A. Elevation of site above mean sea level  5320	B. Height of Structure including all appurtenances and lighting <i>(if any)</i> above ground, or water if so situated 88  C. Overall height above mean sea level (A + B) 5408

**D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc.** Attach a U.S. Geological Survey quadrangle map or equivalent showing the relationship of construction site to nearest airport(s). *(if more space is required, continue on a separate sheet of paper and attach to this notice.)*

Inspiration Point, at the west end of Double View Drive, 2.10 miles SW of the center of Idyllwild, CA.

Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77), pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willingly violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).

**I HEREBY CERTIFY** that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to obstruction mark and/or light the structure in accordance with established marking & lighting standards if necessary.

Date 03-JUN-91	Typed Name/Title of Person Filing Notice Lawrence L. Morton, P.E.	Signature 
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**FOR FAA USE ONLY** *FAA will either return this form or issue a separate acknowledgement.*

The Proposal: \_\_\_\_\_ Supplemental Notice of Construction FAA Form 7460-2 is required any time the project is abandoned, or