#68841

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2013 JUL 22 A 5:49

RECEIVED

July 17, 2013

FRANCISCO R. MONTERO
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FILED/ACCEPTED

JUL 17 2013

Federal Communications Commission
Office of the Secretary

VIA HAND DELIVERY
Ms. Marlene Dortch, Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

FILED/ACCEPTED

JUL 17 2013

Federal Communications Commission
Office of the Secretary

0009634924

Attn: Audio Division, Media Bureau

Re: Station KZSF(AM), San Jose, CA
Facility ID 68841
302-AM Amendment
File Number: BMML-20121005AGW

Dear Ms. Dortch:

Please find attached an amendment to the pending 302-AM Application for KZSF(AM) (Facility ID 68841) as required in the July 1, 2013 Letter from the Supervisory Engineer in the Audio Division of the Media Bureau.

Very truly yours,

Francisco R. Montero
Counsel for KZSF(AM)

cc: KZSF(AM) Public Inspection File

AMENDMENT

Please accept the attached amendments to the pending 302-AM application for KZSF, as requested in the July 1 Letter from the Supervisory Engineer of the Audio Division in the Media Bureau.

Carlos Duharte, Licensee

BENJAMIN F. DAWSON III, PE
THOMAS M. ECKELS, PE
STEPHEN S. LOCKWOOD, PE
DAVID J. PINION, PE
ERIK C. SWANSON, PE

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(1942-2009)
PAUL W. LEONARD, PE
(1925-2011)

ENGINEERING STATEMENT:
REFERENCE: BMML-20121005AGW, KZSF, San Jose , CA Fac. Id. #68841

This engineering statement provides certain information and amendment material requested by letter from the Commission staff dated July 1, 2013. The letter is attached for reference.

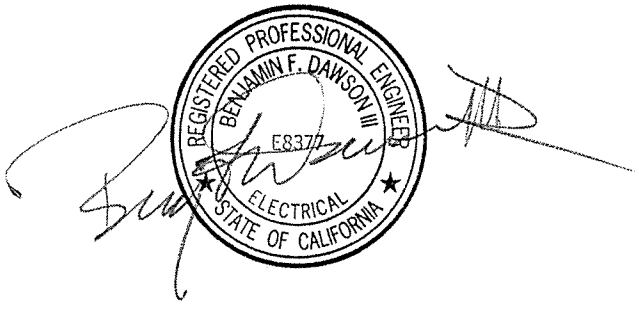
Item 1: Amended pages 4 & 5 of FCC Form 302 and an amended drawing "Derivation of Operating Parameters from Method of Moment Model" are included to correct this round-off or transcription error.

Item 2: An amended page 27 (Item 9) is provided to show that the four sample lines are operated under similar environmental conditions, and that the antenna monitor calibration was checked for all inputs.

Item 3: The field strength meter used for the reference point measurements is the same one as used in the already granted KSJX application filed essentially simultaneously with the KZSF application. However, the meter's calibration has been subsequently checked against a recently calibrated meter, as shown in the attached statement of Ronald D. Rackley, P.E., in connection with another pending license application before the Commission.

Item 4: The harmonic and spurious emission data is identical for KSJX and KZSF, since they are diplexed into the same antenna system. The data sheet previously supplied with the KSJX application is included with this statement.

July 12, 2013



Benj. F. Dawson III, P.E.

FEDERAL COMMUNICATIONS COMMISSION
445 12th STREET SW
WASHINGTON DC 20554

MEDIA BUREAU
AUDIO DIVISION
APPLICATION STATUS: (202) 418-2730
HOME PAGE: www.fcc.gov/mb/audio/

PROCESSING ENGINEER: Edward Lubetzky
TELEPHONE: (202) 418-2700
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INTERNET ADDRESS: Edward.Lubetzky@fcc.gov

JUL 1 2013

Howard M. Weiss, Esq.
Fletcher, Heald & Hildreth
1300 North 17th Street, 11th Floor
Arlington, Virginia 22209

Re: Carlos A. Duharte
KZSF(AM), San Jose, CA
Facility ID Number: 68841
File Number: BMML-20121005AGW

Dear Mr. Weiss:

This is in reference to the above-captioned application to modify the license of station KZSF(AM), San Jose, California.

A preliminary engineering study of the application reveals the following deficiencies:

1. The antenna monitor ratio for tower #2 must be amended to 0.392 on Page 4 of FCC Form 302-AM, and on the page titled "Derivation of Operating Parameters from Method of Moment Model".
2. Item 9 on page 27 must be amended to show that the 4 sampling lines are operating under similar environmental conditions and that the antenna monitor input #3 and #4 were also tested.
3. Since the field meter used to take measurements was last calibrated in 1999, a data comparison with a recently calibrated must be provided.
4. The harmonic measurement field worksheet on co-located station KSJX(AM) must be provided.

Further action on the subject application will be withheld for thirty (30) days from the date of this letter in order to provide an opportunity to file a curative amendment. Failure to respond or file an amendment within this time period will result in the dismissal of the application pursuant to Section 73.3568 of the rules.

Sincerely,

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

cc: Benj. F. Dawson III, P.E.
Carlos A. Duharte

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant: KZSF License Co.

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

[X] Station License [X] Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
				Night	Day
KZSF	not applicable	1370	unlimited	5.0	5.0

2. Station location

State	City or Town
California	San Jose

3. Transmitter location

State	County	City or Town	Street address (or other identification)
CA	Santa Clara	San Jose	501 Wooster St.

4. Main studio location

State	County	City or Town	Street address (or other identification)
CA	Santa Clara	San Jose	2347 Bering Drive

5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)
CA	Santa Clara	San Jose	2347 Bering Drive

6. Has type-approved stereo generating equipment been installed? [ ] Yes [X] No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68? [X] Yes [ ] No [ ] Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed. Exhibit No. Eng. Rpt.

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system	RF common point or antenna current (in amperes) without modulation for day system
10.4	10.4

Measured antenna or common point resistance (in ohms) at operating frequency		Measured antenna or common point reactance (in ohms) at operating frequency	
Night	Day	Night	Day
50.0	50.0	+/-j0	+/-j0

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
1 C	ref	ref	1.0	1.0	not	not
2 E	71.3	71.3	0.392	0.392	required	required
3 N	-79.5	-79.5	0.305	0.305		
4 W	-109.1	-109.1	0.699	0.699		

Manufacturer and type of antenna monitor: Potomac Instruments AM-1901

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
uniform cross section guyed towers * see item 11	59.4	60.4	60.4 (no lighting	Exhibit No. DNA

Excitation [X] Series [ ] Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude				West Longitude			
	37 °	21 '	28 "		121 °	52 '	17 "

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits. Exhibit No. dna

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system. Exhibit No. on file

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

No change from originally licensed system

11. Give reasons for the change in antenna or common point resistance.

No change - rebuild following destruction of site by fire

*ASR #s 1215674, 1215676, 1215678, 1215679
no lighting or marking required

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type)	Signature (check appropriate box below)
Benj. F. Dawson III, P.E.	
Address (include ZIP Code) Hatfield & Dawson Consulting Engineers 9500 Greenwood Avenue North Seattle, WA 98103	Date 9/28/2012 amended 7/12/2013
	Telephone No. (Include Area Code) 206 783 9151

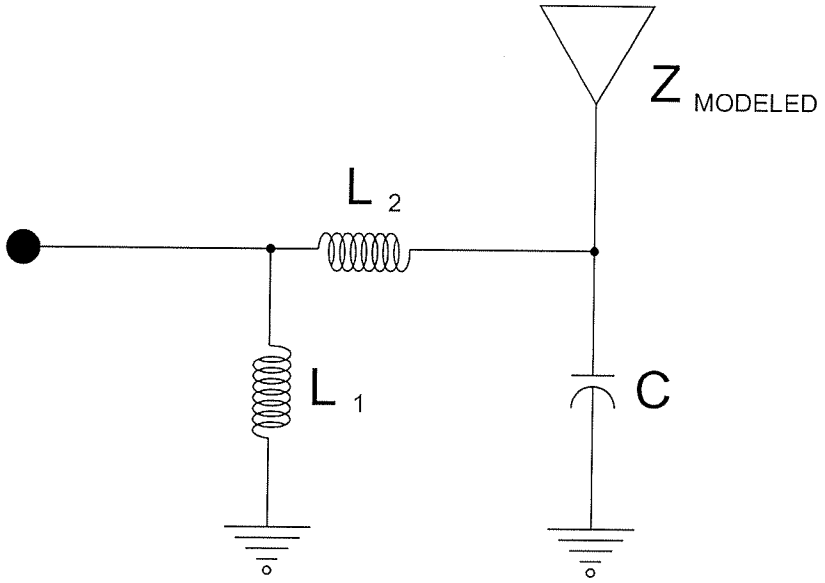
[ ] Technical Director

[X] Registered Professional Engineer

[ ] Chief Operator

[ ] Technical Consultant

[X] Other (specify) Consulting Engineer



TOWER	MODEL I MAG	INPUT I MAG	MODEL PHASE	INPUT PHASE	NORMALIZED I MAG PHASE
#1 C	6.0567	6.001	4.50	4.903	1.0 / 0
#2 E	2.3777	2.351	75.8	76.20	0.392 / 71.3
#3 N	1.8730	1.829	283.6	285.36	0.305 / -79.5
#4 W	4.3044	4.194	254.4	255.84	0.699 / -109.1

Bob Allen, H&D 8/31/2012 3:39 PM KZSF-KSJX CIRCUIT MOM TABLE.dwg

HATFIELD & DAWSON
CONSULTING ENGINEERS

DERIVATION OF OPERATING PARAMETERS
FROM METHOD OF MOMENT MODEL TABLE B

RADIO STATION KZSF SAN JOSE, CA 09/2012

Item 9
Antenna Monitor and Sampling System - KZSF

The antenna monitor is a Potomac Instruments model AM-1901. The sample transformers are connected through equal lengths of ⅜ inch foam heliax solid outer conductor transmission lines (Andrew LDF cable) to the antenna monitor. The four sample lines are routed to the towers such that they are subject to similar environmental conditions.

The antenna monitor was checked by placing the amplified network analyzer output through a sample transformer. A "T" connector was placed on the tower 1 sample transformer and the two outputs of the "T" were fed into the appropriate antenna monitor inputs. All inputs read 0 degrees and a ratio of 100. The antenna monitor readings also agreed with readings of amplitude and phase of the operating antenna obtained from the Hewlett-Packard 8751A network analyzer.

The sample transformers were tested by feeding their outputs configured as described above into the A and B inputs of the network analyzer.
All transformers TCT-1 0.5 V/A

Serial #	889	15708	586	1168
Magnitude	1.0067	1.0049	1.0061	reference
Phase	+0.625	+0.456	+0.672	reference

These values are well within the manufacturer's rated tolerance of +/- 2% amplitude and +/- 2 degrees phase.

du Treil, Lundin & Rackley, Inc.
Consulting Engineers

201 Fletcher Avenue
Sarasota, Florida 34237
Telephone: 941/329 6000
Facsimile: 941/329 6030

STATEMENT OF CALIBRATION

This field strength meter Potomac Instruments model FIM-41 serial number 1205

has had its indications compared on all scales with those of Potomac Instruments FIM-41, serial number 1924, which was calibrated by its manufacturer on May 21, 2012. The indications were found to agree within the manufacturer's rated accuracy for the instrument.

Ronald D Rackley
May 10, 2013

Diplex Harmonic Measurement Worksheet

Station 1	KSJX	Frequency	1500	KHz	Power	10000	Mode	DA-D
Station 2	KZSF	Frequency	1370	KHz	Power	5000	Mode	DA-1
Date	08/30/12	Time	8:15 AM	Station 1 Field Strength			850	mV/m

Harmonic Calculations			Notes	Reading in mV/m	Value	FCC Limit	
1	F1 + F2	2870		0.040	-86.5	-80	dBc
2	F1 + 2(F2)	4240		0.010	-98.6	-80	dBc
3	F2 + 2(F1)	4370		0.035	-87.7	-80	dBc
4	2(F1) - F2	1630		0.013	-96.3	-80	dBc
5	2(F2)	2740		0.030	-89.0	-80	dBc
6	2(F2) - F1	1240	2			-80	dBc
7	2(F1) - 2(F2)	260	1			-80	dBc
8	2(F1) + 2(F2)	5740	1			-80	dBc
9	2(F1)	3000		0.025	-90.6	-80	dBc
10	3(F1)	4500		0.013	-96.3	-80	dBc
11	3(F1)-F2	3130		0.015	-95.1	-80	dBc
12	3(F2)	4110		0.010	-98.6	-80	dBc
13	3(F2)-F1	2610		0.017	-94.0	-80	dBc
14	3(F1)-(2)F2	1760		0.020	-92.6	-80	dBc
15	3(F2)-(2)F1	1110	2			-80	dBc

1	Frequency exceeds FIM capabilities
2	Frequency cannot be measured/Other station present
3	No Signal Present

Measurement Location: GPS: 37° 21.151 / 121° 53.017 - East side of Bakesto Park. Approximately 0.75 miles from KSJX at 243-degrees true.

Diplex Harmonic Measurement Worksheet

Station 1	KSJX	Frequency	1500	KHz	Power	5000	Mode	DA-N
Station 2	KZSF	Frequency	1370	KHz	Power	5000	Mode	DA-1
Date	09/18/12	Time	10:30 AM	Station 1 Field Strength			750	mV/m

Harmonic Calculations			Notes	Reading in mV/m	Value	FCC Limit	
1	F1 + F2	2870		0.050	-83.5	-80	dBc
2	F1 + 2(F2)	4240		0.040	-85.5	-80	dBc
3	F2 + 2(F1)	4370		0.019	-91.9	-80	dBc
4	2(F1) - F2	1630		0.016	-93.4	-80	dBc
5	2(F2)	2740		0.027	-88.9	-80	dBc
6	2(F2) - F1	1240	2			-80	dBc
7	2(F1) - 2(F2)	260	1			-80	dBc
8	2(F1) + 2(F2)	5740	1			-80	dBc
9	2(F1)	3000		0.018	-92.4	-80	dBc
10	3(F1)	4500		0.014	-94.6	-80	dBc
11	3(F1)-F2	3130		0.024	-89.9	-80	dBc
12	3(F2)	4110		0.016	-93.4	-80	dBc
13	3(F2)-F1	2610		0.026	-89.2	-80	dBc
14	3(F1)-(2)F2	1760		0.022	-90.7	-80	dBc
15	3(F2)-(2)F1	1110	2			-80	dBc

1	Frequency exceeds FIM capabilities
2	Frequency cannot be measured/Other station present
3	No Signal Present

Measurement Location: GPS: 37° 21.151 / 121° 53.017 - East side of Bakesto Park. Approximately 0.75 miles from KSJX at 243-degrees true.