FORM 349 APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN AN FM TRANSLATOR OR FM BOOSTER STATION

FOR FCC USE ONLY	
	ISSION USE ONLY
FILE NO.	

SECTION 1 - GENERAL INFORM	MATION		
1. APPLICANT NAME (Last, First, M	/liddle Initial)		
EDUCATIONAL MEDIA FOUNDA	TION		
MAILING ADDRESS (Line 1) (if requ	ired) (Maximum 35 characters)		
1425 NORTH MARKET BOULEVA	ARD SUITE #9		
MAILING ADDRESS (Line 2) (if requ	ired) (Maximum 35 characters)		
CITY	STATE OR C	OUNTRY (if foreign address)	ZIP CODE
SACRAMENTO	CA		95834
TELEPHONE NUMBER (include are	a code) CALL LETTE	RS OR OTHER FCC IDENTIFIER	R (IF APPLICABLE)
916-282-1400	K210CL		
FOR MAILING THIS APPLICATION	, SEE GENERAL INSTRUCTIO	ON D.	
A. Is a fee submitted with this ap	plication?		☐ Yes ⊠ No
B. If No, indicate reason for fee	exemption (see 47 C.F.R. Secti	on 1.1112).	
☐ Governmental Entity	Noncommercial educ	cational licensee	☐ Other (Please explain)
C. If Yes, provide the following in	nformation:		
Enter in Column (A) the correct Fee Services Fee Filing Guide." Column multiplying the value of the Fee Typ	n (B) lists the Fee Multiple appli	icable for this application. Enter i	es may be found in the "Mass Media in Column (C) the result obtained from
(A)	(B)	(C)	
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
NA NA	0 0 0 1	\$ NA	
3. This application is for: (check or	ie box)		
r FM Translator			

FM Translator	☐ FM Booster		
A. Channel No.	B. Community of license:		
040	City	State	
210	LEMON GROVE	CA	

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Section I (Page 2)

C.	Check one of the following boxes:					
	■ NEW Station					
	MODIFICATION of Construction Permit (CP) (Check this box only if a license for this particular	ar CP has not been granted)				
	File No. of Construction Permit:					
	□ MAJOR CHANGE in licensed facilities; call sig	n:				
	MINOR CHANGE in licensed facilities; call sign	n:	K210CL			
	☐ AMENDMENT of Pending application					
	Application Reference No.	MARKET AND				
Fo	amendments to a previously filed application, submit	complete Form 349.				
D.	NATURE OF PROPOSED MODIFICATION, CHANG	GE OR AMENDMENT				
	☐ Change Frequency	□ Relocate Station	Exhibit No.			
	Change Antenna System	Change Equipment	NA			
	Change Power	☐ Other (specify in an Exhibit)				
4.	(a) To the applicant's knowledge, is this application n	nutually exclusive with a renewal application	n? □ Yes ⊠ No			
	(b) To the applicant's knowledge, is this application mutually exclusive with another application? ☐ Yes ☑ No					
	If the answer to question 4(a) or 4(b) is Yes, state the following information:					
Г	Call letters or File No.	Community of License				
1	Call letters or File No.	City	State			

Call latters or File No.	Community of License		
Call letters or File No.	City	State	
(a) NA	NA	NA	
(b) NA	NA	NA	

SECTION II - ENGINEERING DATA AND ANTENNA AND SITE INFORMATION

•	racilities requested:									
	Output Channel No	Frequency			Pro	posed Co	mmunity(i	es) To Be Ser	ved	
)	Channel No. 210	89.9	MHz	City	ON GROVE	=				State CA
	Primary station (stat	tion to be rebroadcast)							-	
	Call Sign	City						State	Output	Frequency
)	KLVJ	JULIAN						CA	Channel No. 261	100.1 M
	Intermediate transla	tor station - if station is	s to opera	ite via a	nother tran	slator sta	ition			
	Call Sign	City						State		
;)	NA	NA						NA		
d)	Alternative Si Satellite Fee Proposed transmitti	ignal Delivery ON			AL CHAN			pplicable	OPERATING	
ity	,		State		County					
N	EAR HOMELANDS		CA		SAN DI	EGO				
١d٥	dress or other descrip	otion of location:						transmitting a	ntenna	
A	TOP SAN MIGUEL N	MOUNTAIN			to neares	st second	(See Instr	uctions)		
						North La	ntitude		West Longitud	de
] 32	° 41	' 46	" 116	° 56 '	08 "
	posed transmitting a	nap or maps (such as t intenna location, show e in kilometers					uadrangle	map) of the ar		Exhibit No.
	b. Prop	osed transmitting ante	enna loca	tion acc	urately plo	tted.				
		g changes that will res g antenna sites and th								
3.	Transmitter:	Make	Type N	0.				Output Power	rР	
		CROWN	FM-30	от				0.000491		Lilouette
4.	Transmission line					Length		Rated efficier (decimal fract	ncy E for length	kilowatts given
		CABLEWAVE	FLC1	2-50J		42		.819		
							Motore			

Section II (Page 2)

5. Transmitting	antenna 🙀 (Su	ectional "Off-the-shelf" ibmit Manufacturer's terns & tabulations)	Directional Co (Multiple Ante (Submit Manu patterns & tab	nnas) ifacturer's	ı	□ Non-direction	al
Manufacturer		Model		Description	n 1/		
SCALA		CA5-150C		YAGI			
Overall structure		Elevation of Site 3/			Power	Gain 4/	
giodria	D/			H		V	
40	me	ters 777	meters	3.98		3.98	
Effective radiated	d power (ERP)		Height of antenna	radiation co	enter		
(ERP= Px Ex G)	.0016	Kilowatts (H)	above ground leve	el _	20	meters	(H)
	.0016	Kilowatts (V)		_	20	meters	(V)
			above mean sea l	evel _	797	meters	(H)
					797	meters	(V)
4/ Use the mul 6. Attach as ar structure(s), including lig BOTH REC	tiplier in lobe of maximum n Exhibit a vertical plane s , giving height of center of hting beacon (if any) and	radiation relative to a halfweletch for the proposed total radiation above ground, ow height above mean sea levering ANTENNAS. Also independent of the proposed total radiation above mean sea levering ANTENNAS. Also independent of the proposed total radiation above mean sea levering and proposed total radiation.	vave dipole. Give the act I structure(s), including serall height of structure avel in meters for all signif	tual power supporting above grou ficant featu	gain toward and, res for		
7. Will the pro	posed antenna supporting	structure be shared with a	n AM radio station?			□Yes 🙀 N	10
If yes, list th	ne call sign(s) and class of	f such station(s).					
8. Is a directio	nal antenna proposed?					Ma Yes □ N	10
(c)(1)-(c)(3)		ent with all data specified in ulations of the relative field				Exhibi F	t No.
9. Are there a which would	ny terrain features betwee d interfere with line-of-site	en the proposed transmitting transmission to any part of	g site and the community f the principal community	to be serv	'ed	□Yes 🖪 t	10
If the answe	er is Yes, attach as an Exl	nibit a description of the ext	ent of the area affected.			Exhibi	No.
						N/	4

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10. \$	Supply terrain and	coverage data (t	o be	calculated in acc	ordance with 47	C.F.R.	Section	73.313)
--------	--------------------	------------------	------	-------------------	-----------------	--------	---------	---------

Source of terrain data; (check only one box below)

■ Linearly interpolated 30-second database (Source N.G.D.C. 30 SECOND

7.5 minute topographic map

Other (briefly summarize)

Radial bearing (degrees True) 1/		Average Elevation of Radial in meters (3 to 16 km) AMSL	Height of Radiation Center above average elevation of radial from 3 to 16 km	Predicted distance to the protected contours (0.5, 0.7 or 1.0 mV/m) 2/
ooster Translator		(5 to 10 kill) AlliGE	(meters)	(kilometers)
0	0	174.4	622.6	1.5
45	. 30	255.1	541.9	1.2
90	60	446.2	350.8	1.6
135	90	417.6	379.4	1.2
180	120	334.8	462.2	1.5
225	150	431.5	365.5	1.4
270	180	162.8	634.2	1.6
315	210	147.4	649.6	5.6
	240	96.9	700.1	7.4
	270	91.5	705.5	5.7
	300	149.3	647.7	1.6
	330	217.9	579.1	1.4

- 1/ Additional radial(s) and related information should be provided when necessary to show interference protection.
- 2/ Protected contours vary depending on the class of station involved. Commercial Class B FM stations protected contour 0.5 mV/m; Commercial Class B1 FM stations protected contour 0.7 mV/m; all other classes of FM stations protected contour 1 mV/m.

Based on the figures obtained from the above table, calculate the appropriate coverage contours of the translator station (see 47 C.F.R. Section 73.333) and answer questions 11 and 12.

11. 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.

- (a) The proposed coverage contour; and
- (b) the protected contour of the licensed primary station to be rebroadcast. (If the primary station is authorized with facilities in excess of those specified by 47 C.F.R. Section 73.211, see Note to 47 C.F.R. Section 74.123 1(h)).
- 12. Based on the above, is the area to be served by the translator or booster station entirely within the primary station's protected contour?

🗖 Yes 🖪 No

13. Is the applicant specifying a channel that is 53 or 54 channels removed from the channel of any FM radio broadcast station in the area of operations? TYes No

If Yes, attach an Exhibit showing compliance with 47 C.F.R. Section 73.207.

Exhibit No.

(Translators will be treated as Class A stations provided, however, that translators operating with less than 100 watts ERP will be treated as Class D stations and will not be subject to I.F. frequency separation requirements (See 47 C.F.R. Section 74.1204(g).)

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14.	Does the applicant have any interest in an application or an authorization for an FM translator station that serves substantially the same area and rebroadcasts the same signal as the proposed FM translator station? See 47 C.F.R. Section 74.1232 (b).	□ Yes 🔀 No
	Station? See 47 C.I. N. Section 74.1232 (b).	Exhibit No.
	If Yes, submit an Exhibit, showing the technical need for the additional translator.	NA
15.	For non-commercial educational applicants intending to operate on reserved channels 201-220, will the proposed operation be within the threshold distance of a TV Channel 6 station as set forth by 47 C.F.R. Section 74.1205 (a)?	☐ Yes 🖪 No
		Exhibit No.
	If Yes, submit an exhibit showing compliance with paragraph (b), (c), or (d) of 47 C.F.R. Section 74.1205.	NA
	If applicant's compliance is based on 47 C.F.R. Section 74.1205 (b), the applicant certifies that it has coordinated its antenna with the affected TV Channel 6 station.	☐ Yes 🚾 No
16.	Has the FAA been notified of proposed construction?	☐ Yes 🛭 No
	If Yes, give date and office where notice was filed:NA	
17.	Environmental Statement (see 47 C.F.R. Section 1.1301 et seq.)	
	Would a Commission grant to this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact, including exposure to workers or the general public, to harmful nonionizing radiation levels?	□ Yes 🛭 No
	If yes, submit as an Exhibit an Environmental Assessment as required by 47 C.F.R. Section 1.1311. If No, explain briefly why not.	Exhibit No.
18.	Unattended operation:	
	Is unattended operation proposed?	
	(a) If yes, and this application is for authority to construct a new station or to make changes in the facilities of an authorized station which proposes unattended operation for the first time, the applicant certifies that it will comply with the requirements of 47 C.F.R. Section 74.1234 concerning unattended operation.	¥ Yes □ No
	(b) In the space below state the name, address and telephone number of a person or persons who may be contacted in an emergency to suspend operation of the translator should such action be deemed necessary by the Commission.	¥es □ No
Nar	me	
	SAM WALLINGTON	
Add	dress (street or other description)	
	1425 NORTH MARKET BOULEVARD #9	
City	y State Telephone No. (include a	area code)
۱ ٔ	SACRAMENTO CA 916-282-1400	

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19. Has the applicant propose provisions of 47.C.F.R. P.		ype accepted or notified in accordance with the	
	nt was submitted to the FCC	d under 47.C.F.R. Section 74.1250(c), Laboratory for approval or the date the	Yes 🗖 No
CERTIFICATION			
		ated below and that I have examined it is true to the best of my knowledge	
Signature		Typed or Printed Name	
		SAM WALLINGTON	
Date		Telephone No. (include area code)	
		916-282-1400	
▼ Technical Director	☐ Registered Pro	rofessional Engineer Consulti	ing Engineer
☐ Chief Operator	Other (specify	y) System Designer	

SECTION III - LEGAL QUALIFICATIONS

NC	NOTE: Applicants for new stations only:								
1.	Applicant is (check of	one of the following):							
	Individual	☐ General Partnership							
	Other	☐ Limited Partnership	☐ Unincorporated Association						
		I entity other than an individual, partr an Exhibit the nature of the applican	nership, corporation or unincorporated t.	1	oit No. IA				
2.	station being rebroa	adcast or does the applicant or any p	see or permittee of the commercial primary parties to the application have any interest rebroadcast? See 47 C.F.R. Section	□Yes	⊠ No				
	contour of the comn	overage contour of the translator stat nercial primary station being rebroad . C.F.R. Section 74.1232(d).	tion extend beyond the protected lcast? If YES, this application cannot	□Yes	⊠ No				
	receiving any supporting primary station bein connection with the corporate parents, s	ort, before or after construction, either og rebroadcast or from any person or primary FM station. Interested and c	No to question (a)) are prohibited from a directly or indirectly from the commercial entity having any interest whatsoever, or any connected parties include group owners, ployees, general and limited partners, family ion 74.1232 (e).						
3.		in compliance with the provisions of ng to interests of aliens and foreign of	Section 310 of the Communications Act of 1934, as governments?	⊠ Yes	□No				
			or the construction, purchase or operation of the nestic entities controlled by aliens, or their agents?	□Yes	⊠ No				
	If Yes, provide p	particulars as an Exhibit.			bit No. NA				
4.	respect to the appli provisions of any la	icant or parties to this application in a	action taken by any court or administrative body with a civil or criminal proceeding, brought under the y; mass media related antitrust or unfair competition; discrimination?	Yes	⊠ No				
	identification of the disposition of the another applicat identification of the call letters of the	the court or administrative body and e litigation. Where the requisite infon tion or as required by 47 U.S.C. Sect that previous submission by reference	osure of the persons and matters involved, including an the proceeding (by dates and file numbers), and the mation has been earlier disclosed in connection with tion 1.65(c), the applicant need only provide: (i) and the tion or Section 1.65 information was filed, and the date ted matter.		bit No. NA				

SECTION I I I - LEGAL QUALIFICATIONS (Page 2)

(iii) Call letters of stations or file number of application or docket number;

5.	Has	the applicant or any other party to this application had any interest in:		
	(a)	a broadcast application which has been dismissed with prejudice by the Commission?	□Yes	⊠ No
	(b)	a broadcast application which has been denied by the Commission?	⊠ Yes	□No
	(c)	a broadcast station, the license for which has been revoked?	☐ Yes	⊠ No
	(d)	a broadcast application in any Commission proceeding which left unresolved character issues against the applicant?	□Yes	⊠ No
	If the	e answer to any of the questions in 5 is Yes, state in an Exhibit the following:	Exh BEL	ibit No. OW
	(i)	Name of party having interest;		
	(ii)	Nature of interest or connection, giving dates;		

Dismissed Applications

(iv) Location.

The Commission has dismissed in the past several of EMF's applications for new FM translators on technical grounds. The dismissal of these applications did not involve any character issues or other similar matters relating to EMF's legal qualifications.

SECTION IV - CERTIFICATIONS

Not	ote: If this application Is for a change in an operating facility, you DO NOT need to respond to Questions 1 and 2.							
1.	The applicant certifies sources to construct ar	that sufficient net nd operate the req	liquid assets are on hand or a uested facilities for three mor	are available from conths without revenue	ommitted e.	⊠Yes □No		
2. The applicant certifies that: (a) it has a reasonable assurance of a present firm intention for each agreement to furnish capital or purchase capital stock by parties to this application, each loan by banks, financial institutions or others and each purchase of equipment on credit; (b) it can and will meet all contractual requirements as to the collateral, guarantees, and capital investment; and(c) it has determined that a reasonable assurance exists that all identified financial sources (excluding banks, financial institutions and equipment manufacturers) have sufficient net liquid assets to meet these commitments.								
3. The applicant, if for a commercial FM translator station with a coverage contour extending beyond the protected contour of the commercial primary station being rebroadcast, certifies								
	that it has not received	any support, before	ore or after constructing, direct or any person with an interes	ctly or indirectly, from	n the	NA		
	licensee or permittee of	f the primary stati	on, except for technical assis	tance as provided f	or			
	under 47 C.F.R. Section	n 74.1232(e).				NA		
4.	4. For applicants proposing translator rebroadcasts who are not the licensee of the primary station, the applicant certifies that written authority has been obtained from the licensee of the station whose programs are to be retransmitted. If No, this application is unacceptable for filing. ☐ Yes ☐ No							
Primary station proposed to be rebroadcast:								
	Call Sign	State	Channel No.					
	KLVJ	JULIAN			CA	261		
5.	The applicant certifies proposed transmitter s this application is gran	ite, and has obtai	ted an authorized spokespers ned reasonable assurance th	son for the owner of at the site will be av	the rights to the vailable for its use if	⊠ Yes □ No		
	That person can be co	ontacted at the follow	owing address and telephone	e number:				
	Name		Mailing Address or Identific	cation				
	VIVIAN FORNECK	MOTOROLA	1309 ALGONQUIN ROA	D				
	City	State	ZIP Code	Telephone No. (ir	nclude area code)			
	SCHAUMBURG	IL	60916	847-538-3379				
6.			cations only, the applicant cents of 47 C.F.R. Section 73.3		or will	⊠ Yes □ No		
7.	7. By checking yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).							

CH# 210D - 89.9 MHz

EXHIBIT A - CHANNEL SELECTION

INTERFERENCE CHECKS WITH CALEM, LEMON GROVE, CA at N. LAT. 32 41 46 W. LNG. 116 56 08

PWR = .0016 kW H.A.A.T. = 553.2 M C.O.R. = 797 M AMSL

Protected F(50-50) 60 dBu = 7.06 km

F(50-10) 40 dBu = 29.43 54 dBu = 11.42 80 dBu = .89 100 dBu = .09

CH# CALL	TYPE * IN * * OUT *	BEARING DISTANCE	LAT.	PWR (kW) INT (km) PRO(km)
CITY	STATE LICENSEE	<	LNG.	HAAT (M) COR (M)	FILE #
208B KPBSFM	CP CN 6.6 -19.2	298.5 33.64 km	32 50 24	26.00 19.97	51.95
San Diego	CA San Diego State University	118.5 20.90 Mi	117 15 06	206.0 276	BPED970211IA
FCC Comment > Propo	osed as Class B to Mexico 970623-0	bjection by Mexico	970731-Petit	ion for	
Recon of Grant by T	TV 6 Station XETV, Tijuana, Mexico	970825			
208B KPBSFM	LI CN -23.3 -50.1	39.7 0.04 km	32 41 47		49.23
San Diego	CA San Diego State University	219.7 0.02 Mi	116 56 07	580.0 807	BLED841121LZ
209A AL209	AL 54.0 R 51.6 M	160.0 105.65 km	31 48 10	3.00 36.63	24.00
Ensenada	BN	340.0 65.65 Mi	116 33 09	100.0 0	
	oted by Commission 940216	310.0 03.03 112	110 35 05		
	•				
210D K210CL	LI DCN -53.1 -42.1	0.0 0.00 km	32 41 46	0.01 46.00	12.68
Lemon Grove	CA Educational Media Foundati	180.0 0.00 Mi	116 56 08	513.0 797	BLFT990222TK
FCC Comment > Trans	slator for KLVJ, Julian, CA				
Proposed to Mexico	as LPFM 980804				
Accepted by Mexico	on 981127				
210B KCRW	LI CN 87.7 132.1	319.9 207.96 km	34 07 08	6.80 113.24	46.44
Santa Monica	CA Santa Monica Community Col	139.9 129.22 Mi	118 23 30	298.0 497	BLED940824KA
210B AL210	AL 158.0 R -22.2 M	91.1 135.84 km	32 39 52	50.00 137.71	65.00
Mexicali	BN	271.1 84.41 Mi	115 29 04	150.0 0	
210B XHSOLF	OP HN 158.0 R -22.2 M	91.1 135.84 km	32 39 52	9.39 82.66	28.73
Mexicali	BN	271.1 84.41 Mi	115 29 04	42.0 0	
210D AP210	AP DCN 45.2 29.7	337.9 62.15 km	33 12 53	0.01 9.90	3.07
Vista	AP DCN 45.2 29.7 CA Stockton Christian Life Co		117 11 15		BPFT960422TE
	slator for KCJH, Stockton, CA.	157.9 30.02 MI	117 11 15	0.0 332	DF1130042212
Proposed as LPFM t					
rroposed as sim e	o nextee years				
210B KCRW	LI CN 81.8 129.4	319.9 207.96 km	34 07 08	6.90 119.11	49.13
Santa Monica	CA Santa Monica Community Col		118 23 30	338.0 537	BLED810325AF
211B KLRD.A	AP DCN 65.9 87.1	1.1 150.65 km	34 03 15	1.20 77.71	52.10
Yucaipa	CA Shepherd Communications, I	181.1 93.61 Mi	116 54 11	770.0 2384	BPED981211IB
FCC Comment > Need	s referral to Mexico for higher o	lass			
212C XHITZF	OP HN 88.0 R -63.0 M	212.9 25.01 km	32 30 26	93.10 6.72	56.31
Tijuana	BN	32.9 15.54 Mi	117 04 50	139.0 0	

212C AL212 AL 88.0 R -63.0 M 212.9 25.01 km 32 30 26 100.00 13.70 92.00	CH# CALL CITY	TYPE STATE	* IN * LICENSEE	* OUT *	BEARING	DISTANCE	LAT. LNG.	PWR (kW) HAAT (M)	INT (km) COR (M)	PRO(km) FILE #
Tijuana PN 22 0 15 54 Mi 117 04 50 600 0 0	212C AL212	AL	88.0 R	-63.0 M	212.9	25.01 km	32 30 26	100.00	13.70 92	2.00
11 Julia	Tijuana	BN			32.9	15.54 Mi	117 04 50	600.0	0 0	
F. RELATIONSHIPS:	4B KFMBFM	LI CN	11.8 R	21.5 M	298.4	33.31 km	32 50 17	30.00	19.81 64	1.45

I.F. RELATIONSHIPS:

264B KFMBFM LI CN 11.8 R 21.5 M 298.4 33.31 km 32 50 17 30.00 19.81 64.45

San Diego CA Midwest Television, Inc. 118.4 20.70 Mi 117 14 56 189.0 269 BMLH830406AF

Nearest CH 6 Grade B =XETV at-83.83 km, Distance= 23.75 Azimuth = 204.3 Deg. T.

Educational Media Foundation Addendum to Exhibit A

1425 North Market Boulevard Suite 9, Sacramento, CA, 95834

Compliance with 47 CFR 74.1204

47 CFR 74.1204(a) prohibits the overlap of predicted field strength contours between a proposed translator station and any other authorized station. The interfering F(50,10) contour of the proposed translator station cannot cross the protected (F50,50) contour of any other authorized station.

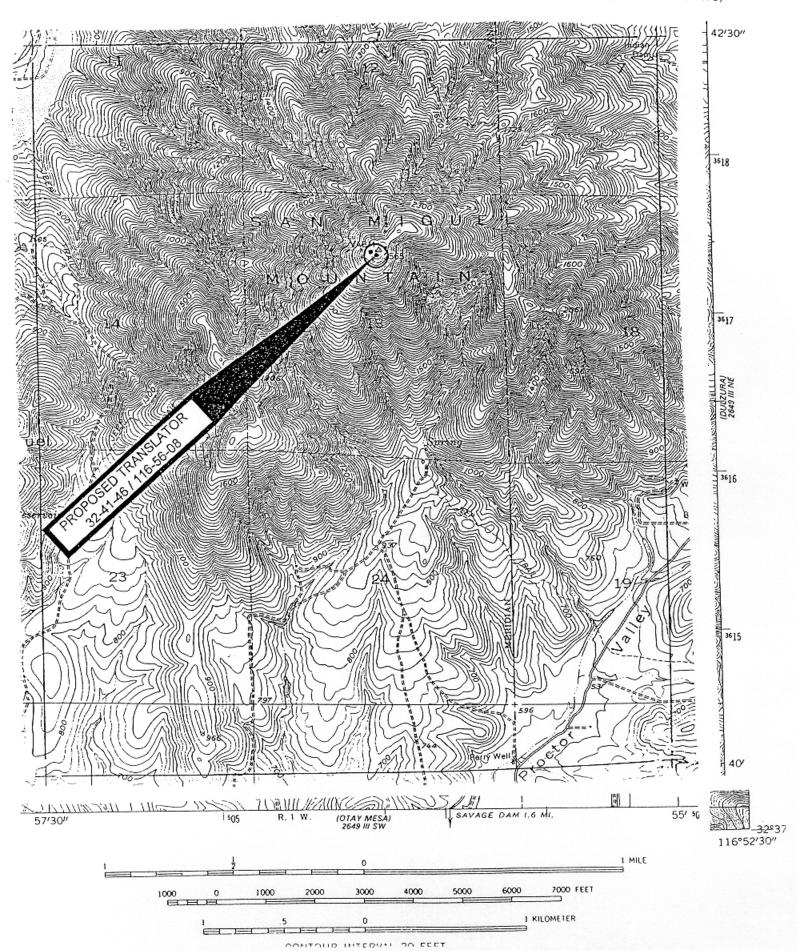
However, 47 CFR 74.1204(d) removes this prohibition under cases where the prohibited overlap would lie entirely over water or other area with a lack of population, or where it can be demonstrated that the intervening terrain would prevent any actual interference.

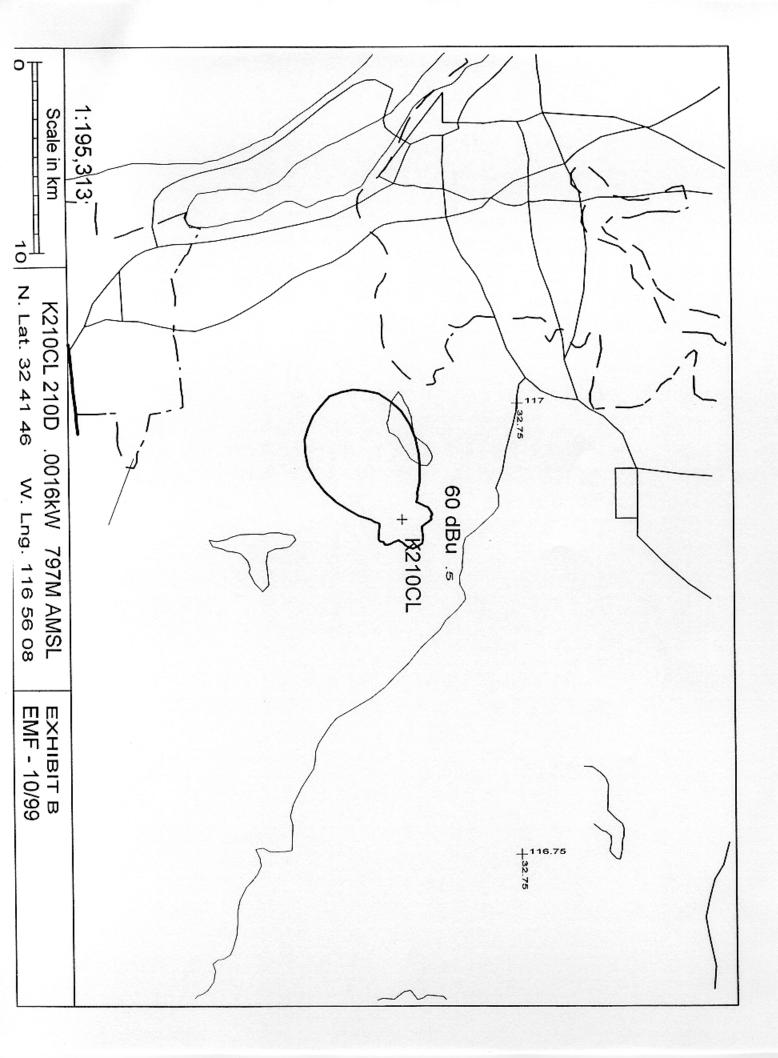
The proposed application fully meets the requirements of 47 CFR 74.1204, even though its interfering F(50,10) contour is contained within the protected F(50,50) contour of KPBS (License and Construction Permit BPED-970211IA), channel 208B, and XHTZF, channel 212C, due to a complete absence of population within the area of predicted field strength contour overlap.

Two factors have been investigated to determine this absence of population:

- Computer software which uses the centroid method of determining population centers, based on the 1990 census data, has determined that there are no persons within the area of overlap.
- Examination of the USGS topographic map reveals no residential structures within the area of overlap (See Exhibit E).

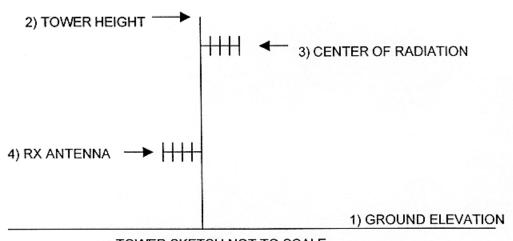
JAMUL MOUNTAINS QUADRANGLE CALIFORNIA—SAN DIEGO CO. 7.5 MINUTE SERIES (TOPOGRAPHIC)





1425 North Market Boulevard #9, Sacramento, CA 95834

Vertical Plan Sketch



TOWER SKETCH NOT TO SCALE

1) Ground elevation:	777 mtrs AMSL
2) Tower height:	40 mtrs AGL / 817 mtrs AMSL
3) Center of radiation:	20 mtrs AGL / 797 mtrs AMSL
4) Satellite dish:	2 mtrs AGL
5) Distance between	
,	

rx antenna and tx antenna 18 mtrs

1425 North Market Boulevard #9, Sacramento, CA 95834

Environmental Impact

The proposed facility will be located at an existing communication facility.

Pursuant to OET Bulletin No. 65, August 1997, entitled "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields," when work is to be performed on the tower, the transmitter power must be reduced or completely eliminated. Additionally, the applicant must coordinate with other site users to lower power or cease operations as necessary to assure worker safety with respect to radiofrequency radiation when construction or maintenance is being performed at the site.

Accordingly, the applicant, 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 radiofrequency radiation in excess of FCC guidelines.

This application meets the requirements of OET Bulletin No. 65 and is categorically excluded from environmental processing pursuant to Section 1.1306 of the Commission's rules because it does not:

- * involve a site location described in Section 1.1307(a)(1)-(7):
- involve high intensity lighting under Section 1.1307 (a)(8): or
- * result in human exposure to radiofrequency radiation in excess of the applicable standard specified in Section 1.1307(b) of the Commission's rules.

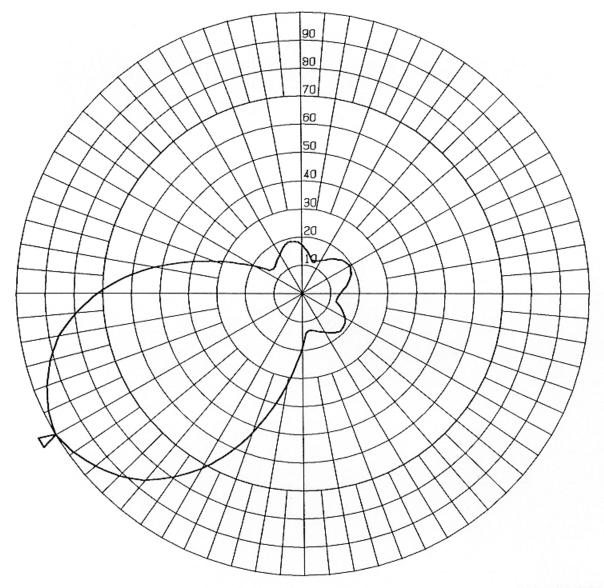
EXHIBIT F - POLAR DIAGRAM AND TABULATION

PROPOSED TRANSLATOR - LEMON GROVE, CA 1 SCALA CA5-150C ORIENTED AT 240 DEGREES MAXIMUM GAIN 3.98 dB POWER GAIN MULTIPLIER - 3.98

Azimuth	Relative Voltage	dBK	ERP
0	0.171	-43.3	0.05w
10	0.140	-45.0	0.03w
20	0.123	-46.2	0.02w
30	0.135	-45.4	0.03w
40	0.160	-43.9	0.04w
50	0.182	-42.8	0.05w
60	0.193	-42.2	0.06w
70	0.182	-42.8	0.05w
80	0.160	-43.9	0.04w
90	0.135	-45.4	0.03w
100	0.123	-46.2	0.02W
110	0.140	-45.0	0.03w
120	0.171	-43.3	0.05w
130	0.187	-42.5	0.06w
140	0.181	-42.8	0.05w
150	0.157	-44.0	0.04w
160	0.142	-44.9	0.03w
170	0.134	-45.4	0.03w
180	0.190	-42.4	0.06w
190	0.329	-37.6	0.17w
200	0.528	-33.5	0.45w
210	0.718	-30.8	0.82w
220	0.866	-29.2	1.20w
230	0.952	-28.4	1.45w
240	1.000	-28.0	1.60w
250	0.952	-28.4	1.45w
260	0.866	-29.2	1.20w
270	0.718	-30.8	0.82W
280	0.528	-33.5	0.45w
290	0.329	-37.6	0.17w
300	0.190	-42.4	0.06w
310	0.134	-45.4	0.03w
320	0.142	-44.9	0.03w
330	0.157	-44.0	0.04w
340	0.181	-42.8	0.05w
350	0.187	-42.5	0.06w

CIRCULAR POLARIZATION

RELATIVE VOLTAGE



10/29/99

EXHIBIT F - POLAR DIAGRAM AND TABULATION

PROPOSED TRANSLATOR - LEMON GROVE, CA 1 SCALA CA5-150C ORIENTED AT 240 DEGREES MAXIMUM GAIN 3.98 dB POWER GAIN MULTIPLIER - 3.98 1425 North Market Boulevard Suite 9 ◆ Sacramento California ◆ 95834

Compliance with Mexican Treaty

Section 2 of the "Agreement Between the Government of the United States of America and the Government of the United Mexican States Relating to the FM Broadcast Service in the Band 88-108 MHz" ("the Agreement") covers Low Power FM (LPFM) Stations.

Paragraph 2.1.2 of the Agreement requires LPFM stations to operate with an ERP not to exceed 50 watts in the direction of the other country. The proposed translator will operate with a maximum ERP of 2.5 watts.

Paragraph 2.1.2 also requires that LPFM stations produce an interfering contour that does not exceed 32 kilometers in the direction of the other country. In the broadest definition, Mexico is located between 89° and 225° true relative to the proposed location. The proposed translator does not produce an interfering contour that exceeds 32 kilometers on any radial between 89° and 225° true, inclusive (see Exhibit G-1).

Paragraph 2.1.3 of the agreement requires that LPFM stations produce a protected contour (60 dBu) that does not exceed 8.7 kilometers in the direction of the other country. The proposed translator does not produce a protected contour that exceeds 8.7 kilometers on any radial between 89° and 225° true, inclusive (see Exhibit G-2).

Paragraph 2.1.4 requires that LPFM stations located within 125 kilometers of the common border be notified in accordance with the notification procedures in Article 8 of the Agreement. This application requires notification.

Per 2.1.6 of the Agreement, should any interference be caused by Educational Media Foundation's operation, EMF will immediately correct the interference or cease operation.

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N. Lat. = 32 41 46 $\,$ W. Lng. = 116 56 08 $\,$ HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

090 417.6 379.4 .0000 .135 7 091 412.9 384.1 .0000 .134 7 092 408.2 388.8 .0000 .133 7 093 402.0 395.0 .0000 .131 7 094 397.0 400.0 .0000 .130 7 095 392.2 404.8 .0000 .129 7 096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	. 1
091 412.9 384.1 .0000 .134 7 092 408.2 388.8 .0000 .133 7 093 402.0 395.0 .0000 .131 7 094 397.0 400.0 .0000 .130 7 095 392.2 404.8 .0000 .129 7 096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.88
092 408.2 388.8 .0000 .133 7 093 402.0 395.0 .0000 .131 7 094 397.0 400.0 .0000 .130 7 095 392.2 404.8 .0000 .129 7 096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.81
093 402.0 395.0 .0000 .131 7 094 397.0 400.0 .0000 .130 7 095 392.2 404.8 .0000 .129 7 096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.80 .78
094 397.0 400.0 .0000 .130 7 095 392.2 404.8 .0000 .129 7 096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.78
095 392.2 404.8 .0000 .129 7 096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.76
096 387.4 409.6 .0000 .128 7 097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.74
097 378.7 418.3 .0000 .127 7 098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.72
098 368.7 428.3 .0000 .125 7 099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.73
099 358.5 438.5 .0000 .124 7 100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.74
100 352.2 444.8 .0000 .123 7 101 347.3 449.7 .0000 .125 7	.75
101 347.3 449.7 .0000 .125 7	.73
	.84
	. 94
	.04
	.14
	.23
106 328.9 468.1 .0000 .133 8	.34
107 323.7 473.3 .0000 .135 8	.44
	.53
	.62
	.70
	.84
	.97
	.10
	.21
	.30
	.40
	.49
	.60
	72
	.85
	9.92
	9.98
).03).06
	0.06
	0.02
	9.96
	9.87
	7.75
	9.58
	9.28
	3.96
	3.70
	3.49
135 514.8 282.2 .0001 .184	3.32
136 522.5 274.5 .0001 .183	3.18
137 527.1 269.9 .0001 .183	9.09
	8.10
139 515.9 281.1 .0001 .182	8.24

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140	500.7	296.3	.0001	.181	8.44
141	486.4	310.6	.0001	.179	8.56
		321.3		.176	8.63
142	475.7		.0000		
143	469.1	327.9	.0000	.174	8.64
144	467.3	329.7	.0000	.171	8.59
145	469.1	327.9	.0000	.169	8.49
146	472.1	324.9	.0000	.167	8.39
147	469.9	327.1	.0000	.164	8.34
148	460.2	336.8	.0000	.162	8.37
149	446.2	350.8	.0000	.159	8.45
		365.5	.0000	.157	8.52
150	431.5				
151	415.5	381.5	.0000	.156	8.62
152	397.4	399.6	.0000	.154	8.72
153	379.9	417.1	.0000	.153	8.81
154	366.7	430.3	.0000	.151	8.86
155	357.7	439.3	.0000	.150	8.87
156	350.4	446.6	.0000	.148	8.86
157	342.1	454.9	.0000	.147	8.85
158	332.7	464.3	.0000	.145	8.84
159	319.6	477.4	.0000	.144	8.84
					8.85
160	303.2	493.8	.0000	.142	
161	285.1	511.9	.0000	.141	8.89
162	268.9	528.1	.0000	.140	8.93
163	256.1	540.9	.0000	.140	8.95
164	246.0	551.0	.0000	.139	8.97
165	241.3	555.7	.0000	.138	8.96
166	237.5	559.5	.0000	.137	8.94
167	232.3	564.7	.0000	.136	8.93
168	224.5	572.5	.0000	.136	8.93
	215.1	581.9	.0000	.135	8.94
169					
170	205.0	592.0	.0000	.134	8.95
171	195.2	601.8	.0000	.140	9.27
172	185.5	611.5	.0000	.145	9.59
173	178.1	618.9	.0000	.151	9.89
174	172.1	624.9	.0000	.156	10.19
175	168.4	628.6	.0000	.162	10.46
176	167.4	629.6	.0000	.168	10.73
177	166.5	630.5	.0000	.173	10.98
178	165.8	631.2	.0001	.179	11.23
179	164.6	632.4	.0001	.184	11.48
		634.2	.0001	.190	11.74
180	162.8			.204	
181	160.8	636.2	.0001		12.33
182	158.8	638.2	.0001	.218	12.91
183	156.7	640.3	.0001	.232	13.47
184	155.2	641.8	.0001	.246	14.02
185	154.6	642.4	.0001	.259	14.54
186	154.2	642.8	.0001	.273	15.35
187	153.6	643.4	.0001	.287	15.92
188	152.9	644.1	.0001	.301	16.46
189	152.7	644.3	.0002	.315	16.98
	153.0	644.0	.0002	.329	17.46
190				.349	18.14
191	153.2	643.8	.0002		
192	153.7	643.3	.0002	.369	18.77
193	154.3	642.7	.0002	.389	19.37
194	154.7	642.3	.0003	.409	19.95
195	155.4	641.6	.0003	.428	20.51
196	156.2	640.8	.0003	.448	21.04
197	156.9	640.1	.0004	.468	21.55
198	157.5	639.5	.0004	.488	22.05

1425 North Market Boulevard Suite 9 ◆ Sacramento California ◆ 95834

199	158.3	638.7	.0004	.508	22.53
200	159.1	637.9	.0004	.528	22.99
201	159.6	637.4	.0005	.547	23.43
202	159.3	637.7	.0005	.566	23.87
203	158.2	638.8	.0005	.585	24.33
204	156.0	641.0	.0006	.604	24.80
205	153.2	643.8	.0006	.623	25.28
206	150.5	646.5	.0007	.642	25.75
207	148.9	648.1	.0007	.661	26.19
208	148.4	648.6	.0007	.680	26.60
209	148.2	648.8	.0008	. 699	27.00
210	147.4	649.6	.0008	.718	27.41
211	146.0	651.0	.0009	.733	27.74
212	144.4	652.6	.0009	.748	28.08
213	142.8	654.2	.0009	.762	28.42
214	141.1	655.9	.0010	.777	28.76
215	139.4	657.6	.0010	.792	29.10
216	138.0	659.0	.0010	.807	29.43
217	137.3	659.7	.0011	.822	29.74
218	136.9	660.1	.0011	.836	30.05
219	136.2	660.8	.0012	.851	30.36
220	135.1	661.9	.0012	.866	30.68
221	134.1	662.9	.0012	.875	30.88
222	133.3	663.7	.0012	.883	31.07
223	132.5	664.5	.0013	.892	31.26
224	131.5	665.5	.0013	. 900	31.46
225	130.1	666.9	.0013	.909	31.68

Ave El= 108.25 M HAAT= 195.06 M AMSL= 797 M Area by numeric integration= 234.82 Sq km.

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N. Lat. = 32 41 46 $\,$ W. Lng. = 116 56 08 $\,$ HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Azi.	AV EL	HAAT	kW Field 60 .5	
089	422.0	375.0	.0000 .138 1.22	
090	417.6	379.4	.0000 .135 1.20	
091	412.9	384.1	.0000 .134 1.19	
092	408.2	388.8	.0000 .133 1.18	
093	402.0	395.0	.0000 .131 1.13	
094	397.0	400.0	.0000 .130 1.10	
095	392.2	404.8	.0000 .129 1.14 .0000 .128 1.13	
096	387.4	409.6 418.3	.0000 .128 1.13	
097	378.7 368.7	428.3	.0000 .127 1.13	
098 099	358.5	438.5	.0000 .123 1.1	
100	352.2	444.8	.0000 .124 1.19	
101	347.3	449.7	.0000 .125 1.1	
102	343.7	453.3	.0000 .126 1.13	
103	340.5	456.5	.0000 .128 1.1	
104	337.1	459.9	.0000 .130 1.1	
105	334.1	462.9	.0000 .132 1.1	
106	328.9	468.1	.0000 .133 1.1	
107	323.7	473.3	.0000 .135 1.2	
108	320.6	476.4	.0000 .137 1.2	
109	318.2	478.8	.0000 .138 1.2	
110	317.2	479.8	.0000 .140 1.2	
111	316.7	480.3	.0000 .143 1.2	
112	316.2	480.8	.0000 .146 1.3	0
113	317.4	479.6	.0000 .149 1.3	2
114	321.0	476.0	.0000 ,152 1.3	5
115	326.2	470.8	.0000 .156 1.3	8
116	331.6	465.4	.0000 .159 1.4	
117	335.7	461.3	.0000 .162 1.4	3
118	337.0	460.0	.0000 .165 1.4	
119	336.4	460.6	.0000 .168 1.4	
120	334.8	462.2	.0000 .171 1.5	
121	332.7	464.3	.0000 .173 1.5	
122	331.7	465.3	.0000 .174 1.5	
123	333.0	464.0	.0000 .176 1.5	
124	337.5	459.5	.0001 .177 1.5	
125	345.8	451.2	.0001 .179 1.5	
126	356.8	440.2	.0001 .181 1.6	
127	369.6	427.4	.0001 .182 1.6	
128	384.1	412.9	.0001 .184 1.6) <u> </u>
129	401.8	395.2	.0001 .185 1.5	
130	423.5	373.5	.0001 .187 1.5	
131	447.4	349.6	.0001 .186 1.5	
132	470.7	326.3	.0001 .186 1.6 .0001 .185 1.6	
133	489.8	307.2		
134	504.3 514.8	292.7 282.2	.0001 .185 1.6	
135 136	522.5	274.5	.0001 .184 1.0	
137	527.1	269.9	.0001 .183 1.0	
138	525.8	271.2	.0001 .182 1.0	
139	515.9	281.1	.0001 .182 1.	
200				

1425 North Market Boulevard Suite 9 ◆ Sacramento California ◆ 95834

140	500.7	296.3	.0001	.181	1.61
141	486.4	310.6	.0001	.179	1.58
142	475.7	321.3	.0000	.176	1.56
143	469.1	327.9	.0000	.174	1.54
144	467.3	329.7	.0000	.171	1.52
145	469.1	327.9	.0000	.169	1.50
146	472.1	324.9	.0000	.167	1.48
147	469.9	327.1	.0000	.164	1.46
148	460.2	336.8	.0000	.162	1.44
149	446.2	350.8	.0000	.159	1.41
150	431.5	365.5	.0000	.157	1.39
151	415.5	381.5	.0000	.156	1.38
152	397.4	399.6	.0000	.154	1.37
153	379.9	417.1 .	.0000	.153	1.35
154	366.7	430.3	.0000	.151	1.34
					1.33
155	357.7	439.3	.0000	.150	
156	350.4	446.6	.0000	.148	1.31
157	342.1	454.9	.0000	.147	1.30
158	332.7	464.3	.0000	.145	1.29
159	319.6	477.4	.0000	.144	1.27
160	303.2	493.8	.0000	.142	1.26
					1.20
161	285.1	511.9	.0000	.141	1.25
162	268.9	528.1	.0000	.140	1.25
163	256.1	540.9	.0000	.140	1.24
164	246.0	551.0	.0000	.139	1.23
165	241.3	555.7	.0000	.138	1.22
166			.0000	.137	1.22
	237.5	559.5			
167	232.3	564.7	.0000	.136	1.21
168	224.5	572.5	.0000	.136	1.20
	215.1	581.9		.135	1.20
169			.0000		
170	205.0	592.0	.0000	.134	1.19
171	195.2	601.8	.0000	.140	1.24
		611.5			
172	185.5		.0000	.145	1.29
173	178.1	618.9	.0000	.151	1.34
174	172.1	624.9	.0000	.156	1.39
175	168.4	628.6	.0000	.162	1.44
176	167.4	629.6	.0000	.168	1.49
177	166.5	630.5	.0000	.173	1.54
178	165.8	631.2	.0001	.179	1.51
179	164.6	632.4	.0001	.184	1.57
180	162.8	634.2	.0001	.190	1.62
181	160.8	636.2	.0001	.204	1.76
182	158.8	638.2	.0001	. 218	1.88
183	156.7	640.3	.0001	.232	2.00
184	155.2	641.8	.0001	.246	2.12
185	154.6	642.4	.0001	.259	2.24
186	154.2	642.8	.0001	.273	2.34
187	153.6	643.4	.0001	.287	2.45
188	152.9	644.1	.0001	.301	2.55
189	152.7	644.3	.0002	.315	2.66
190	153.0	644.0	.0002	.329	2.77
191	153.2	643.8	.0002	.349	2.91
192	153.7	643.3	.0002	.369	3.06
193	154.3	642.7	.0002	.389	3.22
194	154.7	642.3	.0003	.409	3.37
195	155.4	641.6	.0003	.428	3.51
196	156.2	640.8	.0003	.448	3.67
197	156.9	640.1	.0004	.468	3.82
198	157.5	639.5	.0004	.488	3.96
250	137.5	555.5	.0004		5.50

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199	158.3	638.7	.0004	.508	4.10
200	159.1	637.9	.0004	.528	4.25
201	159.6	637.4	.0005	.547	4.38
202	159.3	637.7	.0005	.566	4.52
203	158.2	638.8	.0005	.585	4.66
204	156.0	641.0	.0006	.604	4.80
205	153.2	643.8	.0006	.623	4.94
206	150.5	646.5	.0007	.642	5.08
207	148.9	648.1	.0007	.661	5.21
208	148.4	648.6	.0007	.680	5.34
209	148.2	648.B	.0008	. 699	5.46
210	147.4	649.6	.0008	.718	5.59
211	146.0	651.0	.0009	.733	5.69
212	144.4	652.6	.0009	.748	5.78
213	142.8	654.2	.0009	.762	5.88
214	141.1	655.9	.0010	.777	5.97
215	139.4	657.6	.0010	.792	6.06
216	138.0	659.0	.0010	.807	6.16
217	137.3	659.7	.0011	.822	6.25
218	136.9	660.1	.0011	.836	6.34
219	136.2	660.8	.0012	.851	6.43
220	135.1	661.9	.0012	.866	6.52
221	134.1	662.9	.0012	.875	6.58
222	133.3	663.7	.0012	.883	6.63
223	132.5	664.5	.0013	.892	6.68
224	131.5	665.5	.0013	.900	6.74
225	130.1	666.9	.0013	.909	6.79

Ave El= 108.25 M HAAT= 195.06 M AMSL= 797 M Area by numeric integration= 9.07 Sq km.