orm 341		Form Approved Budget Bureau No. 52-R139-4	FOR COMM	ISSION USE ONLY
SECTION I		•	File No.	
	UNITED STATES RAL COMMUNICA	OF AMERICA TIONS COMMISSION	Name (See Instruction D) Edu Of Alfred, Inc Address Alfred St	cational Foundation ate College
-		_	Giv Alfred	State -N.Y. zip14802
			Notices and communications with randdressed to the following-named p	espect to this application are to be persons at the address indicated: Sheehan, Dept.
			2. Construction permit covered by	this application
			File number BPED-1298	Date 1/6/72
1			Construction begun	Construction completed
			3/6/72	1/5/73 operating condition and ready for regular
			operation? If not, explain	Yos Q No -
			been made. If the arrangement is be statement of the arrangement shoul Note: The NET, NAEB Radio Tap	Yes No No arrangements under which they are to arrangements under which may have ased on an oral understanding, a written d be submitted. e Network, Educational Radio Network and k are examples of educational networks.
			4. Give actual costs of making instauthorized	tallation for which construction was
			Transmitter proper including tubes	Antenna system including tower, coup- ling equipment, and transmission line
T. Fa			Frequency and modulation monitors not applicable	\$ Studio technical equipment, microphone, transcription equipment, cameras, etc. \$
Effective radiated power or power for standard bro stations		Antenna height above average terrain in feet (FM and TV only)	not applicable	Acquiring, constructing or modifying buildings
0.010KW		-98 ft.	Other items (state nature) Installation W	Total as donated; material
Location of main studio			s labor were t	hrough student help
New Yorl	City	Alfred		changes in the financial data submitted
Location of transmitter			 b. If answer to Question 5a is yes, ment outlining such changes. 	, submit as Exhibit No. a state-
New York	County Allega	iny Alfre	fion?	duct program tests a part of this applica-
Number and street (or oth	er indication of I		If "No," explain 7. Is applicant's ownership report sion? If "No," explain	(FCC Form 323E) on file with the Commis-
			, expidin	

İ

THE APPLICANT hereby waives any claim to the use of any particular frequency or of the ether as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Cominications Act of 1934).

THE APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

THE APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

CERTIFICATION

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

Signed and dated this 5 day of January , 19 73

Educational Foundation of Alfred. Inc.

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

President, Educational Foundation of Alfred, Inc.

If applicant is represented by legal or engineering counsel, state name and post office address:

Mr. William 'Argentieri Attorney-at-law

9 Seneca Street

Hornell, N. Y. 14843

*XHIBITS furnished as required by this form:

EXHIBIT NO.	SECTION AND PARAGRAPH NO. OF FORM	NAME AND OFFICER OR EMPLOYEE (1) BY WHOM OR (2) UNDER WHOSE DIRECTION EXHIBIT WAS PREPARED (SHOW WHICH)	OFFICIAL TITLE
1	Sec. II-	William Argentieri	Attorney-at-law
2	Sec. II-	11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (,, ,,
3	Sec.II-		11
4	Sec. III	The Control of the Co	11
.5.		Professor William D. Sheehan	Chairman, Elec- trical Engineer
6	Sec. IV-		ing Technology Department
7	Sec. VB-		"
8	Sec. VB-		"
9 10	Sec. V-9 Sec. V-9		" "

FCC Form 341			•	FI	EDERAL COMMUNI	CATIONS COMM	AISSION				Sec	ction II-A
LICENSE APPLICATION ENGINEERING DATA STANDARD BROADCAST			me of applicant	FOR COMMISSION USE OF			ILY					
						7. Operating constants: (If directional system, give current at point of resistance measurement.)						
	t measure	ment of power			1 thru 13 2,6,7,8,9,14	RF common point or antenna current without modulation for night power in amperes			RF common point or antenna current without modulation for day power in amperes			
1. Facilities of	ythori zed	File No. of co							-			
- Carrier		1 110 110. 01 0	onstruction p	Primit 1			sured antenr				antenna or	
Frequency	Hours o	f operation	Power in kilowatts			point resist	tance (in oh: ncy	ns) at opera	point reactance (in ohms) at operating frequency			
			Night	7 0	Day					i vi		
	,					Night	Day.		_ Night_		_Doy	
2. Station loca	tion					Currents, a	ınd phases fo	or directions	loperation			
Ştate	1	•	City or tow	n			Phase reading in degrees		Antenna base		Remote indication of antenna current	
3. Transmitter	location						Night		Night	Day	Night	Day
State			County			Tower	Night	Day	Mighi	Day	Right	Day
City or Town	•		Street Addr	ess (or	other identification	7						
4. Main studio	location											
State			County	:								
City or Town		<u> </u>				Manufacturer	and type of	phase monit	or used in	taking al	ove reading	s:
City or 1 owi	•		Street and	number								
5 Parenta con		lassias (asla	16			-	N*					
State	troi point	location (only	City or Toy			Describe equi		for remote i	ndication o	f antenna	currents (p	hase
							,					
Street Addre	ss (or oth	er identificatio	n)									
6. Transmitter	Installed	!	,			8. Description	on of antenna	system	~,			
Make		Type No.			tated Power	(If directional given for each figures should	h element of	the array. L	lsa separat			
Last radio s	tage					Type rediator				fact of c	mpiete rodi	ator above
		Total unm			Plate voltage	Type register			hase insulator, or above base if grounded			
Night						Overall heigh	it in feet abo	ve ground.	If antenna	is eithe	r top loaded	or sec-
Day											e fully as E	
	-											
Operation of la amplifier stage		requency	۸.		۵.	Excitation			Series _		Shunt.	
			вс 🗆		D□	Geographic co For directions For single ve	al antenna g	ive coording	ites of cen		ıy.	
Manufacturer's amplifier stage			officiency for	the los	it radio frequency	North latitude		80	West long	itude o		м
Is inverse feed If "Yes", to w	hat value	of feedback po		🗆	No □	If not fully de any other ante Exhibit No.						
Efficiency of the		dio frequency a	mplifier			Details and d		f ground sys sary for com	*		h as Exhibi	t No.
			(use formul	a 12	R _p (100)%							

Not applicable

Attach as Exhibit No. a. Gualifications of engineers takin		
a. Qualifications of engineers takin	the following:	
-		d. Manufacturer's name of each calibrated instrument used
b. Schematic diagram showing clear		and manufacturer's rated accuracy.
coupling circuits, point of resist- location of antenna ammeter, con	ance measurement.	e. Date, accuracy, and by whom each instrument was last
characteristics of all tower light	ing isolation circuits,	calibrated.
static drains, and any other fixtu connected to or supported by the		f. Table of complete data taken
other antennas and associated ci		g. The groph drawn of 10 to 12 readings in a band 50 to 60 kilohertz wide with the operating frequency near the center.
c. Full description of method used t	to make measurements.	anoneriz wide with the operating nequency near the center.
D. Modulation monitor		12. Give method of varying power to compensate for variation of
Make .	Type No.	line voltage.
, Frequency monitor		
lake	Type No.	그렇다 하기 보는 이 등 나가는 내용하는데 없다
] 그림 : 이 사는 그 살아가는 이 것 같아요? (1) 만
By what method and how often will calibration of the frequency monitor	regular measurements of the	[[기타] - 기타 -
onon or the haddency monitor	no rabonioni	
		13. In what respect, if any does the apparatus constructed differ from
		that described in the application for construction permit or in the permit?
live the following data on the freque		
Date and time	Name of measurement agency or method used	
· // 	·	
		▲ 보다 그는 사람들이 되는 사람이 모르는 사람이 되었다.
·		14. Give reason for the change in antenna or common point resistance.
Frequency measured by such agency or method (before	Monitor reading high or low	1
adjustment to zero)		
		-
		
		†
** **		

•			5				
Broadcast Application	FEDERAL		CATIONS COMMISSION			Section II-B	
LICENSE APPLICATION NONCOMMERCIAL EDUC			Applicant Educational For COMMISSION USE ONLY lation of Alfred, Inc.				
acilities authorized in cons			8. Transmission line				
	f construction permit		Make	Type		Description	
WETD BPED-	1298		Andrew	FHJ		Foam	
	d Power (aural) Antenna h		L	50B		Heliax	
	7.82 average to	feet	Size: (nominal inside transverse dimension)	Length in		ent for this length	
2. Transmitter location			in inches . 5	100 f	t.	84	
State New York	County Allegany		9. Modulation monitor	n/a			
City or town	Street Address (or other	identi.)	Meke not applicabl		Type No		
Alfred	Angeline-Woo	d Hall					
3. Main studio location			10. Frequency monitor				
State Van Van I	County		not applicabl		Type No.		
New York	Allegany		By what method and how o	ften will re			
Alfred			n/a	,	- ,-p		
4. Remote control point location							
None	City or town						
Street Address (or other identi	fication)		<u> </u>				
Alfred State	College		Give the following data on				
5. Transmitter installed			Date and time Name of measurement agency o method used				
Make Gates		Power	1.12/28/72 2:45PM h/p 5248M				
	BFE-10G3 10.	UH	2.12/29/72 2:5		req.	counter	
)perating constants	·		Windowski and the Control of the Con	OPM			
D.C. plate current in lest radio stage, 78A in amperes	Applied D.C. plate voltage of last radio stage, in volts	3.6V	Frequency measured by su		$\overline{}$	Monitor reading high or low	
Plate input power to	Efficiency factor F		agency or method 1.91.300036 MH	7.		N/A	
last radio stage, in kilowatts . 01841KW	of transmitter at operating power, in percent	4.3	2.91.300050 MHz.				
Transmitter power output in kw by indirect method . 010KW	RF transmission line meter reading N/A	4	3. <u>91.300045 MH</u> 4.91.299983 MH				
7. Antenno Direct	. 1//	A	11. In what respect, if any,			constructed differ	
Antenna make and type No.	Number of Power	gain	from that described in t	he applicati	on for c	onstruction permit or	
Marti EA-2V	Rections	.0	In the permit?	conci	+ ~	tod differs	
Overall height of antenna system	m shove ground		The apparatus from the orig				
in feet. 55			Permit; the m				
Geographical coordinates of an North latitude	tenna (to nearest second) West Longitude		cribed on the				
42° 15′ 24′	77° 47° 4	1"	Construction P		date	ed 11/3/72,	
		•	file BMPED-939	١.			
Antenna supporting structure (d	iescribe fully)						
Self-supporting							
perr author crus	Š						
			cated below and that I hav	re examine	d the fo	oregoing statement	
of technical information and	unat it is true to the bes	tormy kno	D'	11	71	(/	
			Signature Richard	of di	1000	251	
			Richard	L. Hai	nd		
Date 1/5/73			Technical Director		-	Chief Operator	
			Registered Profession	nal Engine	er	Consulting Engineer	

FCC Form 341				FEDERAL COMMUNIC	CATIONS COMMISSION				Section II-C
	LICENSE		TION ENGINE	ERING DATA	Name of applicant FOR COMMISSION USE				MISSION USE ONLY
1	NONCOMME	RCIAL ED	UCATIONAL T	V BROADCAST	File No.				
1. Facilities	outhorized in	n construct	ion permit		Aural transmitter				h (1)
Call sign	Channel I	No. File	No. of constru	ction permit	D. C. plate current in last radio stage, Applied D. C. plate voltage in amperes				
	Frequency		Visua	-	네트 남이 보다 이 이 그 얼마라 하는 뭐겠었다.	ag•	Efficiency for operating po		F of transmitter at n percent
			Transmitter power output In dbk: In kw:	RF transmis	ansmission line meter reading				
4				feet	6. Antenna and transmission line				
In kw:		In kw:		1 reer	Antenna make and Type No.	Nu	mber of section	ns	Power gain in db
2. Station loc	ation (princi	pal commu						- 1	
State			City or tov		Antenna supporting structure				
3. Transmitte	r location								
State			County						
City or town			Street Add	lress (or other identification	Overall height of antenna system	abòve	ground in fee	ıt	
					Geographical coordinates of anter	nna (to	nearest seco West longi	nd) tude (a de la constanta de la consta
4. Main studi	o location				1				
State			County		If directional antenna is used, gi	ve full	l details including horizontal and		
City or town			Street add	reas	vertical plane radiation patterns, as Exhibit No.				
		_			Is electrical or mechanical beam If so, describe fully in Exhibit N including horizontal and pertinen	o.		Yes	
5. Transmitte	rs Installed								
Visual					Has antenna been altered to prov If so, describe fully in Exhibit N		Il fill-in?	Yes	No
Make			Type No.	Rated power	Transmission line				
				In dbk:	Transmission line Make	Ti	Type No.	1	Coaxial or waveguid
Aura!				in kw;	1				
Make			Type No.	Rated power				. 1	
Make			туре но.	In dbk:	Size (nominal inside transverse dimensions) in inches	T.	ength in foet	in feet Power loss in o	
				in kw:					
Operating cor	stants				Multiplexer				
Visual transm	nitter (while	transmittir	g black)		Make		Name	Туре	No.
D. C. plate con last radio in amperes			Applied D voltage of stage, in	last radio					
Transmitter p vestigial side and after mul	eband filter,	if used,	Multiplexer lo db, if separate						
In dbk:					If emergency antenna or transmis Exhibit No.	ssion l	in o measures	are pr	ovided, describe in
In kw: Transmission	line Anter	na input	Antenna por	wer Effective radiated	7. Modulation monitors				
power loss in db: power in dbk;		gain in db;	power In dbk:	(a) Visual monitor or monitoring equipment					
				In kw:	Make		and the second second second	or des	cribe in Exhibit
				tion concerning the method d at output of multiplexer,			No.		
so state.	ower autout	meter (tran	smission line v	oltage, current or power;	(b) Aural monitor				
			uthorized powe		Make		Type No.		
					7.7				

FCC FORM 341	NONCOMMERCIAL EDUCATIONAL	TV BROADCAST ENGINEERING DATA	Section H-C, Page 2
S. Frequency monitors		10. Performance data - Aural transmitter	
(a) Visual monitor Make Type	Normal limits of deviation of carrier frequency shown by monitor high high cps. to cps. low low	together with description of measurement procedures regard to the following: (All measurements shall be adjusted for normal program operation and shall inclu the main studio microphone terminals and the antenno phone lines, pre-emphasis circuits and any equalizer.	made with the equipment de all circuits between a output, including tele- s employed except for
(b) Aural monitor		microphones, and without compression if a compressi installed.)	on amplitier is
Make Type If either frequency monitor indicates an permissible tolerance, describe in Exhicorrective measures taken.		a. Audio frequency response from 50 to 15,000 Hertz 50 and 100 percent modulation. Measurements shifted following audio frequencies: 50, 100, 400, 10 15,000 Hertz. The frequency response measureme made without deemphasis; however, standard 75 m may be employed the measuring equipment or syst curacy of the deemphasis circuit is sufficient to it response is within the prescribed limits.	all be made on at least 00, 5000, 10,000 and nts should normally be icrosecond deemphasis em provided the ac-
If the carrier frequencies have been med	ate, method used or frequency measuring	b. Audio frequency harmonic distortion for 25,, 50 an for the fundamental frequencies of 50, 100, 400, 11 Audio frequency harmonics for 100 percent modula frequencies of 10,000 and 15,000 Hert. Measurer include harmonics to 30,000 Hert. The distortion made employing 75 microsecond deemphasis in the system.	000 and 5000 Hertz. tion for fundamental ments shall normally measurements shall be
9. Performance data - Visual transmitte	r		1_(80 - 1500
modulating frequency of 4.75 Mi	lower side-band for a modulating er, and of the upper side-band for a	 C. Output noise level (frequency modulation) in the b Hertz in decibels below the audio frequency level quency swing of 25 kilohertz. The noise measure employing 75 microsecond deemphasis in the meas system. d. Output noise level (amplitude modulation) in the b Hertz in decibels below the level representing 100 modulation. The noise measurements shall be empiricrosecond deemphasis in the measuring equipme 	representing a fre- ments shall be made uring equipment or and of 50 to 15,000 percent amplitude sloying 75
	a photograph of a test pattern taken		
11. In what respect, if any, does the app	paratus constructed differ from that descri	bed in the application for construction permit or in the p	ermi†?
I certify that I represent the applicant is true to the best of my knowledge and be	in the capacity indicated below and that I elief.	have examined the foregoing statement of technical info	mation and that it is
(44)	Signature	(check appropriate box below) Chief Operator Registered Professional Engineer	Consulting Engineer