FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

Approved by OMB 3060-0065 Expires 12/31/92

Public reporting burden for this collection of information is estimated to average 4 hours 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. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Communications Commission, Office of Managing Director, Washington, DC 20554, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (3060-0065), Washington, DC 20503.

APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5 OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER) THAN BROADCAST)

	OF FCC RULES	5 - EXPERIME	NIAL RADIO S	SERVICE (OTHER)	IHAN BRUADCA	.51)			
A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code, See Instruction No. 4)			DO NOT WRITE IN THIS BLOCK						
(Give street, City, state, and 21r Code, See Instruction (vo. 4)				File No.					
			3504-EX-PC-42						
	s, Inc.		25042 EX 24C-47						
	34th Avenue								
Minneapolis, MN 55450									
2.(a) Application fo	r (check only one bo)	r)	2.(b) For Modification indicate below						
X New Station				File No.:	Call Sign:				
3. Application for i	modification indicate	change in (check all th	nat apply)						
☐ Frequency		Emission	Power	☐ Location					
Other part	iculars (describe belo	w or in attached Exhil	hit No.						
			,						
NEW									
4. Particulars of O	peration (See instruct	ions below)							
Frequency (State		POWER				NECESSARY			
Whether kHz or MHz)		T T		EMISSION	MODULATING SIGNAL	BANDWIDTH (kHz)			
(A)	(B)	(C)	(D)	(E)	(F)	(G)			
5625 mhz	250Kw peak	250 Kw	Peak	РØ	1440 PRF @	600 Khz			
		@ 1° Beamwid	th		20 us	<u> </u>			
		42 dbi gain							
									
(B) Insert maximum	(A) List each frequency or frequency band separately. (If more space is required, attach as Exhibit No). (B) Insert maximum R.F. output power at the transmitter terminals. Specify units. (C) Insert maximum effective radiated power from the antenna (If pulsed emission specify peak power).								
		definitions in Part 5).		aa b .		Ī			
	of emission separately priate for the type of	y for each frequency.	(See Section 2.201 F	CC Rules.)					
• •	mum speed of keying					ļ			
	n audio modulating fr					ł			
•	y deviation of carrier; ration and repetition r								
		detail in the space pro	ovided below.						
		ith was determined in		<i>t</i> .					
BN = 2 K		K = 6				[
t		T = 20 us							

5(a). Proposed location of transmitter and transmitting antenna (Check only o	ne box)						
☐ FIXED/BASE ☐ MOBILE	X BASE & MOBILE						
(b) If permanently located at a fixed location, give below	(d) If mobile, describe the exact area of operation						
State County City or Town MN Hennepin Minneapolis	C media media II C A						
Number and street (or other indication of location) 6301 - 34th Avenue South	Continental U.S.A.						
(c) Geographical coordinates exact to the nearest second	(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications)						
North Latitude West Longitude	North Latitude West Longitude						
44 ° 53 ′ 20 ″ 93 ° 13 ′ 17 ″	44° 53′ 20″ 93° 13′ 17″						
6. Is a directional antenna (other than radar) used?	X□ Yes □ No						
If "YES", give the following information: Doppler Weather Radar							
(a) Width of beam in degrees at the half-power point $\frac{1.0^{\circ}}{0}$. (b) Orientation in horizontal plane $\frac{360^{\circ}}{0}$ Rotation with sector blanking (Transmit inhibit) to circumver (c) Orientation in vertical plane $\frac{0^{\circ}}{0}$ to $\frac{90^{\circ}}{0}$ safety or interference situations.							
7. Is this authorization to be used for fulfilling the requirement of a government	nent contract with an agency of the United States Government?						
☐ Yes	⊠ No						
If "Yes", attach as EXHIBIT No, a narrative statement des	cribing the government project, agency, and contact number.						
8. Is this authorization to be used for the exclusive purpose of developing ra-							
of a foreign government?	☐ Yes						
If "Yes", attach as EXHIBIT No, the following information							
(a) The contract number and the name of the foreign government concerns	ed.						
Is this authorization to be used for providing communications essential to research project).							
research projects.	☐ Yes Yes						
If "Yes", attach as EXHIBIT No, a narrative statement providing the following information: (a) A description of the nature of the research project being conducted. (b) A showing that the communications facilities requested are necessary for the research project involved. (c) A showing that existing communications facilities are inadequate.							
10. If all the answers to Items 7, 8, and 9, are "No", attach as EXHIBIT No	o. 001, a narrative statement describing in detail the following:						
(a) The complete program of research and experimentation proposed include(b) The specific objectives sought to be accomplished.(c) How the program of experimentation has a reasonable promise of contradio art, or is along line not already investigated.							
11. (a) Give an estimate of the length of time that will be required to complete	e the program of experimentation proposed in this application.						
(b) If less than 2 years, give the length of time in months that the authorize							
12. Would a Commission grant of this application come within Section 1.1307 environmental impact?							
If you answer yes, submit an Environmental Assessment required by Section	on 1.1311.						

MANUI	w transmitting equipment to be FACTURER	mstance in experim	TYPE		NO. OF UNITS
Coll WRT-			Pulsed Dopp Weather Rad		
14. Is the equ	uipment listed in Item 13 capab	le of station identifica	•		
15 31/11 41-			Yes	X No	
	or will the proposed antenna b				tend more than 6 meters above the
If "Yes"	, give the following (See Instru	action 9):		□ No	
(a) Overa	all height above ground to tip o	f antenna is 21	meters. (70 ft.)		
(b) Eleva	tion of ground at antenna site a	bove mean sea level	is <u>256</u> meters.		
(c) Distar	nce to nearest aircraft landing a	rea is Less th	han 1 Km	kilometers.	
	iny natural formations of existing of shield the antenna from aircra				in the opinion of the applicant, would
	trol Tower structu ntenance Hangars -		_	3	
Rad	io communication t	cowers - with	h obstruction lig	hts	
			_	,	
			ketch of total structure includi	ng supporting buildi	ng, if any, giving heights in meters
			ketch of total structure includi	ng supporting buildi	ng, if any, giving heights in meters struction lighting already available.
above			ketch of total structure includi	ng supporting buildi	
above	ground for all significant feature is (check only one box)		ketch of total structure includi	ng supporting buildi	struction lighting already available.
above	ground for all significant feature is (check only one box)	res. Clearly indicate	ketch of total structure includi existing portion, noting partic	ing supporting buildi ulars of aviation obs	struction lighting already available.
above 16. Applicant Indi Othe	ground for all significant feature is (check only one box)	Association	ketch of total structure includi existing portion, noting partic	ing supporting buildi ulars of aviation obs	struction lighting already available.
16. Applicant Indi Othe 17. Is applica	is (check only one box) vidual er (describe below) nt a foreign government or a recant or any party to this applica	Association	Partnership Partnership Yes ation license or permit revoke	Ing supporting buildiculars of aviation observed Corp No od or had any applications	struction lighting already available.
16. Applicant Indi Othe 17. Is applica 18. Has applicadenied by	is (check only one box) vidual er (describe below) nt a foreign government or a re	Association Peresentative of a forestion had any FCC states	Partnership Partnership Yes Yes	Ing supporting buildiculars of aviation observed X Corporation Corporation X No	oration lighting already available.
16. Applicant Indi Othe 17. Is applicated the denied by If "Yes".	is (check only one box) vidual er (describe below) nt a foreign government or a recent or any party to this applicathis Commission?	Association presentative of a fore	Partnership Partnership Yes Yes	Ing supporting buildiculars of aviation observed X Corporation Corporation X No	oration lighting already available.
16. Applicant Indi Othe 17. Is applica 18. Has applica 18. Has applicadenied by If "Yes". 19. Will appli 20. Give name	is (check only one box) vidual er (describe below) nt a foreign government or a recant or any party to this applications this Commission? attach as EXHIBIT No.	Association Peresentative of a fore stion had any FCC sta, a statement g station?	Partnership Partnership Peign government? Yes ation license or permit revoke Yes giving call sign of license or p Yes Yes	Ing supporting buildiculars of aviation observation observation observation observation observation of a via the control of th	oration lighting already available.
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22. CERTIFICATION ATTENTION: Read this certification carefully before signing this application. THE APPLICANT CERTIFIES THAT: (a) Copies of the FCC Rules Parts 2 and 5 are on hand; and (b) Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel: (c) All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and (d) Grant of the authorization requested herein will not be construed as a finding on the part of the Commission (1) that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and (2) that the applicant will be authorized to operate on any basis other than experimental, and (3) that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis. **APPLICANT CERTIFIES FURTHER THAT:** (e) All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and (f) The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and (g) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA. _____ day of ____ December . 19 92 Signed and dated this _ Kavouras, Inc. Name of Applicant _ (correspond with name given on page 1) William R. Pate (print)

NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

Radar Systems Program Manager

WILLFUL FALSE STATEMENTS MADE ON THIS FORM

ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S.

CODE, TITLE 18, SECTION 1001.

Title

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specifically by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to Section 0.459 of FCC Rules and Regulations. Your response is required to obtain this authorization.

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.

Check Appropriate Classification:

☐ Individual Applicant

or Association

Authorized Employee

☐ Member of Applicant Partnership☐ Office of Applicant Corporation