APPROVED BY OMB 3060-0065 Expires 9/30/98

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

(Street address) No. 4) CALIFORNIA DGS-Teleco 601 Sequoi	Name and Post ess, city, state, a , STATE OF mmunication a Pacific B. , CA 95814	and ZIP Code. \$		File No.	EX-ML-19			
				C(h) For Modifice	tion indicate below	7.		
2(a). Application			ing authorization	2(b). For Modification indicate below:				
New station	> - > (1101110	lification of existi	now beside all na	File No: 0012-EX	fied. Check either	Sign: WA2XWC		
8. Application if placement to	or Modification indicate wheth	er the change	e is an addition of	or a replacement of	parameters in the	Carron Bannor Bannon		
TREQUENCY -		☐ EMISSION	_	POWER -		ATION -		
★ addition or [replacement?	addition of	or [] replacement?	addition or 🗌	replacement?	ddition or replacement?		
	JLARS - addition o			attached EXHIBIT No	,			
Frequency (state	Operation (see	POWER	0010 117	EMISSION	MODULATING	NECESSARY BANDWIDTH		
whether kHz or MHz)					SIGNAL (F)	(KHz)		
(Δ) (Δ) TOOTÔ MI	l <u>(B)</u> z 10 W	(C) 100 W	(D) PEAK	(E) 1K50G1D	±60°, 100 BITS	0.1		
<u>401.78950 MH</u> 401.88550 M H		100 W	PEAK	1K50G1D	±60°, 100 BITS	0.1		
(B) Insert ma units. (D) Insert "MF (E) List each (F) Insert as a (1) the ma (2) maxim (3) freque (4) pulse of	ximum R.F. outp ximum effective EAN" or "PEAK" type of emission appropriate for aximum speed of um audio moduling deviation duration and re- ex emissions, d	(See definition separately in the type of relating frequence of carrier; petition rate.	he transmitter to wer from the arms in Part 5). for each frequer modulation: wauds; ney; all in the space p	more space is requierminals. Specify unitenna (If pulsed en ney. (See Section 2.2) provided below. ed in space provided	nits. hission, specify pea. Of of FCC Rules.)	k power). Specify C Form 442 - Page 2		
(G) Describe	now the necess	ary pandwidt.	n was determine	A III space provided	- 	March 1996		

E FIXED/BASE Model. State Ca County Merced City or Town Shelling Model. Number and street (or other indication of location) MERCED RIVER TELEMETRY STA 2 M/SW Shelling Model. Number and street (or other indication of location) MERCED RIVER TELEMETRY STA 2 M/SW Model. Note Model.	5(a). P	roposed location of trans	mitter and transmitting	antenna (check	only one box to indicat BASE AND MOBILE	e type of operation):
State County Marcod City or Town Spelling	-	¥				the constance of
Number and street (or other indication of location) Manufact and street (or other indication of location)			a FIXED location, give b	elow:		e the exact area of
MMRCD RIVER TELEPHENY STA 2 KM SW MORE DRIVER		·	1 -	ling		i
State Stat						
State Stat	MFR	CED RIVER TELEMETRY STA 2	2. KM SW			
Note Latitude DO-MM-SS West Longitude CO-MM-SS Note Latitude Note				see instruction 10)		
North Lattude CD-MM-SS) West Longitude CD-MM-SS) West Longitude CD-MM-SS) West Longitude CD-MM-SS) West Longitude CD-MM-SS 30 24						1
Set). Datum (see instruction 10):					, ,,	. , ,
6. is a directional antenna (other than radar) used? YES NO 16 "YES", give the following information: (a) Width of beam in degrees at the half-power point 25° (b) Orientation in horizontal plane 203° (c) Orientation in vertical plane 44° 7. Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? YES NO 16 "YES", attach as EXHIBIT No	37°	30 24		00		
If YES, give the following information: (a) Width of beam in degrees at the half-power point	5(d). I	Datum (see instruction 10):	X	NAD 27 🔲	NAD 83	
(a) Width of beam in degrees at the haif-power point \$\frac{45^{\circ}}{\circ}\$ (b) Orientation in horizontal plane \$\frac{203^{\circ}}{\circ}\$ (c) Orientation in vertical plane \$\frac{44^{\circ}}{\circ}\$ (b) Orientation in horizontal plane \$\frac{203^{\circ}}{\circ}\$ (c) Orientation in vertical plane \$\frac{44^{\circ}}{\circ}\$ (c) Orientation to be used for providing communications essential to a research project? (The radio communication in not in contract number and the name of the nature of the research project being conducted. (a) Adescription of the nature of the research project being conducted. (b) Ashoving that existing communications facilities requested are necessary for the research project? (The radio communications facilities are linadequa				YES 🔲	NO	
(b) Orientation in horizontal plane 203° (c) Orientation in Vertical plane (d) Orientation in Vertical plane (e) Orientation in Vertical plane (e) Orientation in Vertical plane (e) Orientation in Vertical plane (f) TYES, attach as EXHIBIT No	If	"YES", give the following	information: as at the half-power poi	nt 45°		
United States Government?	(a) (b)	Orientation in horizontal	plane 203°	(c) Orient	ation in vertical plane	44°
United States Government?				autroment of a	zovernment contract W	ith an agency of the
If "YES", attach as EXHIBIT No a narrative statement describing the government project, agency and contact number. 8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? YES	7. Is	this authorization to be u	sed for fulfilling the re		NO	
8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? YES NO	7.0	Titled States dovernment.	L. No anar			ment project,
YES NO	20	ency and contact number	•			
If "YES", attach as EXHIBIT No the following information: Provide the contract number and the name of the foreign government concerned. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project). YES NO NO NO NO NO NO NO NO	8. Is	this authorization to be u stations under the jurisd	ised for the exclusive publication of a foreign gover	erment:	•	or export to be employed
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 a narrative statement describing in detail the following: (a) The complete program of research and experimentation proposed including description of equipment and theory of operation. (b) The specific objectives sought to be accomplished. (c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated. 11(a). Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required: 12. Would a Commission grant of this application come within Section 1.1807 of the FCC Rules, such that it may have a significant environmental impact (see instruction 11)? 12. Would a Commission grant of this application come within Section 1.1807 of the FCC Rules, such that it may have a significant environmental impact (see instruction 11)? 13. List below transmitting equipment to be installed (if experimental, so state): 14. MODEL NUMBER NO. OF UNITS MANUFACTURER	na	ame of the foreign govern	nment concerned.	ollowing information	ation: Provide the contr	
(a) The complete program of research and experimentation proposed including description of equipment and theory of operation. (b) The specific objectives sought to be accomplished. (c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated. [11(a). Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required: [12] Would a Commission grant of this application come within Section 1.1807 of the FCC Rules, such that it may have a significant environmental impact (see instruction 11)? [13] YES	ca If (a (b (c	"YES", attach as EXHIBIT) A description of the nat) A showing that the com) A showing that existing	No a narture of the research produmunications facilities recommunications facilities	YES Trative statement ject being conducted are necessare inadequa	NO provding the following teted. essary for the research te.	g information: project involved.
in this application: (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required: (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required: (c) Would a Commission grant of this application come within Section 1.1807 of the FCC Rules, such that it may have a significant environmental impact (see instruction 11)? (d) YES NO If "YES", attach as EXHIBIT No. If "YES", attach as EXH	(h (c	and theory of operation of the specific objectives how the program of ex	of research and experim sought to be accomplished perimentation has a real of the radio art, or is a	entation propose ed. sonable promise long line not alr	of contribution to the ceady investigated.	of equipment
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12. Would a Commission grant of this application come within Section 1.1807 of the FCC Rules, such that it may have a significant environmental impact (see instruction 11)? If "YES", attach as EXHIBIT No an Environmental Assessment as required by Section 1.1811. 18. List below transmitting equipment to be installed (if experimental, so state): MODEL NUMBER NO. OF UNITS	(b)	in this application: If less than 2 years, give	the length of time in m	onths that the a	uthorization requested	in this application
MANUFACTURER MODEL NOVIELA	12.	Would a Commission gran	nt of this application con al impact (see instruction	me within Section 11)?	T VES NO	
7 - 7	18.	List below transmitting e	equipment to be installed	(if experiments	al, so state): MBER	
				555		1

14.	Is the equip	ment listed in Ite	m 13 capable of station	on identification pursu	ant to Section 5.1523	, <u> </u>	YES	XX	NO	
15.	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? YES X NO									
	If "YES", give the following (see instruction 9): (a) Overall height above ground to tip of antenna is meters.									
	(b) Elevation	n of ground at an	itenna site above me	an sea level is	meters.					
	(c) Distance to nearest aircraft landing area is									
	the opin	natural formation lion of the application hazard of th	int, would tend to sh	nade structures (hills, to deld the antenna from	rees, water tanks, t aircraft and thereb	owers, y min	etc.) w imize t	hich, he	in	
	if anv. e	riving heights in	meters above ground	al profile sketch of total for all significant fea ting already available.	al structure includi tures. Clearly indic	ng sup ate ex	porting listing	builc portio	iing, n,	
16.	Applicant is	S. (Check only one	boxi							
	☐ INDIVI	DUAL ASS	SOCIATION [PARTNERSHIP	CORPORATION	i				
	X OTHER	(describe in space	e provided below)							
	GOV	ERNMENTAL ENT	ITY							
		0	t or a represent	ative of a foreign gov	ernment?		YES	XX	NO	
17.										
18.	Has application	nt or any party t for permit, licens	o this application had se or renewal denied	i any FCC station licen by this Commission?	se or permit revok		YES	, [図]	NO	
		If "YES", attach as EXHIBIT No a statement giving call sign of license or permit								
		d relate circumsta								
19.	Will applicant be owner and operator of the station?						YES		NO	
20.	 Give name, title, and telephone number (include area code), and Internet e-mail address (if applicable) of person who can best handle inquiries pertaining to this application. 						on			
	0	Dallar Camia	- M-7	iora Fraincon Of	16 657 6151					
21.		BETTOW, Senton		ions Engineer, 9	10=057=0154					
2.11.	By checkin	coking "VFS" the individual applicant certifies that he or she is eligible for this license. This requires that								
	he or she is not subject to a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti- Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant,									
	ag corporation partnership or other unincorporated association, certifies that no party to the application is									
	subject to a denial of federal benefits, pursuant to that section. For definition of a "party" i						ese pur	poses	ı	
	see 47 CFR	1.2002(b).				<u>KX</u>	YES		NO	
22.	List below	all exhibits in nu	merical sequence and	i the item number of f	orm requiring the	exhibi	t identi	fied.		
EXI	HIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER		ITEM	NO. OF	FORM	
	1	10								
			l	†	1					

23. CERTIFICATION:

Attention: Read this certification carefully before signing this application.

THE APPLICANT CERTIFIES THAT:

- (a) Copies of FCC Rule 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; and
- (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:
 - (i) 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.

Signed and dated this	FIRST	aay or _	OOTODER	,1972
Name of Applicant	STATE OF CALIFORNIA			
	lmust	correspond with name	me given on page 11	_
By GLEN S.	NASH		flent Vla	al
	(print)		(signature)	
Title <u>CSA VII, Sen</u>	nior Telecommunicati	ons Engineer		
Check appropriate classif	ication:			
☐ Individual applicant	Member of applic	ant partnership		
X Authorized employee	e Office of applican	nt corporation or	association	
WILLFUL FALSE STATEMENTS N 18 Section 1001), AND/OR REV Section 312(a)(1), AND/OR FORF	OCATION OF ANY STATIO	N LICENSE OR CO		

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

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specified 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 by the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

Public reporting burden for this collection of information is estimated to average four (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 the burden to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0065), Washington, DC 20554. **DO NOT send completed applications to this address.** Individuals are not required to respond to this collection unless it displays a currently valid OMB control number.

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.

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