## Federal Communications Commission Washington, D.C. 20554

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

	ame and Post Office city, state, and ZIP C	address code. See Instruction N	No. 4)		WRITE IN THIS B	LOCK
General Ele 4421 Forbes Lanham, MD	s Blvd.	Services Co	File No. 1781-EX-MR-91			
2.(a) Application for	or (check only one bo	) (2x)		2.(b) For Modification ind	icate below	
☑ New Stat	ion 🗆 Moo	dification of existing a	nuthorization	File No.:	Call Sign:	
3. Application for	modification indicate	change in (check all	that apply)	<u> </u>		
☐ Frequency	у 🗆	Emission	☐ Power	Location		
Other par	ticulars <i>(describe beli</i>	ow or in attached Exh	libit No			
Note: Th	nis applicat ne current l	ion is for a	different cu	nstomer but is ba 3 Navy (Marine Co		npdate of
	Operation (See instruc	ctions below)	/			NECESSA DV
Frequency (State Whether kHz or MHz) (A)	(B)	POWER (C)	(D)	EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (kHz) (G)
Tuneable	24.4KW	109.0MW	Peak	5M23Q1N	VLFM	5228
1215-1400MH	z					(short rang
Tuneable	24.4KW	109.0MW	Peak	9M21Q7N	VLFM	9207
1215-1400MH		10 / 10/1//	reak	)1121Q/II	Anfli	(long range
			<del> </del>	<u> </u>	<u> </u>	
(B) Insert maximu (C) Insert maximu (D) Insert "MEAI (E) List each type (F) Insert as appro (1) the max (2) maximu (3) frequent (4) pulse du For complex of (G) Describe how B(-20dB)	m R.F. output power meffective radiated N'' or "PEAK" (See of emission separate opriate for the type or imum speed of keying m audio modulating free deviation of carrier aration and repetition emissions, describe in the necessary bandwi	r at the transmitter ter power from the anteni definitions in Part 5) ly for each frequency f modulation: g in bauds; frequency; r; rate.	minals. Specify units. na (If pulsed emission (See Section 2.201 F rovided below. n space provided below	CC Rules.)  VLFM = Variable :  v.  Bs=7.5 MHZ  B (short rai	Calculated NTIA Manual Paragraph Linear Freque (long range onge)= .228+5	l, Annex J. 3.1c ency Modulation

5(a). Proposed loca	tion of transmitter	and transmitting antenna (Check or	nly one box)					
☐ FIXED/B.	ASE	☑ MOBILE	□ BASE & M	<b>IOBILE</b>				
(b) If permanently	located at a fixed	location, give below	(d) If mobile,	describe the	exact area	a of operation		
State	County	City or Town	within 5	0 mile	s of S	Syracuse,	NY	
Number and street	(or other indication	n of location)						
(c) Geographical co	ordinates exact to	the nearest second	1	cal coordinate		approximate centions)	ter of prop	osed
North Latitude		West Longitude	North Latitude	:		West Longitud	le	
0	, "	,	43	05	16 "	76°	05	51 "
6. Is a directional	antenna (other tha	in radar) used?	☐ Yes		⊠ No			
If "YES", give	e the following infe	ormation:						
(b) Orientation	eam in degrees at to in horizontal plane in vertical plane _							
7. Is this authoriza	ation to be used fo	or fulfilling the requirement of a government	vernment contract with	h an agency	of the Un	ited States Gove	rnment?	
		☐ Yes	X No					
If "Yes", attac	h as EXHIBIT No	o, a narrative statemen	nt describing the gover	rnment proje	ect, agency	y, and contact n	ımber.	
		r the exclusive purpose of developing	ng radio equipment fo	or export to	be employ	ed by stations u	nder the ju	risdiction
of a foreign go	vernment?		X Yes		□ No			
		o, the following inform						
(a) The contrac	t number and the r	name of the foreign government cor	ncerned.					
0 1 1 1 1			-1 4	-49 (Thd	·			f 4b -
research project		r providing communications essentia	al to a research project	ct: (The rad	io commu No		ie objective	e of the
TC (13521	L . EVIIDE N.			.: :_ <b>c</b>				
		the research project being conducte		ing informa	mon:			
		ations facilities requested are necess	•	project invol	lved.			
(c) A showing t	hat existing comm	unications facilities are inadequate.						
10. If all the answe	rs to Items 7, 8, a	and 9, are "No", attach as EXHIBI	T No, a n	arrative stat	ement des	cribing in detail	the followi	ing:
(a) The complet	te program of rese	arch and experimentation proposed	including description	of equipmen	nt and the	ory of operation.		
(b) The specific	objectives sought	to be accomplished.						C .1
•	-	entation has a reasonable promise of already investigated.	t contribution to the d	evelopment,	, extension	, expansion, or	utilization	of the
n.a.	•	,						
11• 44	•							
11 (a) Give an esti	mate of the length	of time that will be required to cor	mplete the program of	f experiment	tation prop	nosed in this app	lication	13 mos
		ength of time in months that the au						
		s application come within Section 1	.1307 of the FCC Ru	les, such tha	at it may h	ave a significan	t	
environmental i	mpact?		☐ Yes		X No			
If you answer y	es, submit an Envi	ironmental Assessment required by	Section 1.1311.					

	ow transmitting equipment to be FACTURER	installed (if exper	imental, so state):  TYPE		NO. OF UNITS
Gener	al Electric Co.		AN/TPS 59M/34		9
14. Is the eq	uipment listed in Item 13 capab	le of station identi-	fication pursuant to Section 5.152	2?	
			☐ Yes	⅓ No	
			and, or if mounted on an existing xisting structure other than a bui		extend more than 6 meters above the
If "Yes"	', give the following (See Instru	action 9):	☑ Yes		
	•		•		
(a) Oven	all height above ground to tip o	f antenna is1	O meters.		
(b) Eleva	tion of ground at antenna site a	bove mean sea lev	el is meters.		
(c) Distar	nce to nearest aircraft landing a	rea is		kilometers.	
(d) List a	ny natural formations of existing	ng man-made struct	ures (hills, trees, water tanks, to	wers, etc.) which	, in the opinion of the applicant, would
tend t	to shield the antenna from aircra	aft and thereby min	nimize the aeronautical hazard of	the antenna.	
					ding, if any, giving heights in meters
above	ground for all significant featu	res. Clearly indica	te existing portion, noting particular	liars of aviation o	bstruction lighting already available.
16. Applicant	is (check only one box)				
☐ Indi		Association	☐ Partnership	⊠ Co	rporation
☐ Oth	er (describe below)				•
17 To continu			:	<del></del>	
17. Is applica	nt a foreign government or a re	epresentative of a f	Yes	⊠ No	
		ation had any FCC	station license or permit revoke	d or had any appl	ication for permit, license or renewal
•	this Commission?	. a statemen	☐ Yes t giving call sign of license or p	☑ No ermit revoked and	
			- giving our sign of needs of p		
19. Will appli	cant be owner and operator of	station?	⊠ Yes	□ No	
			of person who can best handle in Equipment Engine		
	66–1912	COOLUINACO	. Ddarbmene pugine	ering Rade	21
21. List below	all exhibits in numerical seque	ence and the item i	number of form requiring the ex	hibit identified.	
	TEM NO. OF FORM				
Exhibit Number	ltem No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form
1	8.Foreign Gov't				
			<del> </del>		

## 22. CERTIFICATION

Title

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 i	in the a	application an	d attached	exhibits are tr	ie, comp	lete and	correct to the	ne best	of the appl	icant's l	cnowledg	e: and
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- (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	Tenth		day of January	, 19 <u>91</u> .
Name of Applicant	General	Electric	Radio Services Corporation	
			(correspond with name given on page 1)	

By _	Robert M. Johnson	15	) N	Johnson	
•	(print)		Τ	(signature)	

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

Check Appropriate Classification:	
☐ Individual Applicant	

Member	of	Applicant	Partnership

Office of Applicant	Corporation
or Association	

Authorized	Employee

x Duly	Aut	horiz	ed S:	igna <sup>.</sup>	ture

### 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 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.