March 1996

with parameters in block 4f

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

<ol> <li>Applicant's Name and Post Office address         (Street address, city, state, and ZIP Code. See instruction No. 4)     </li> </ol>					DO NOT WRITE IN THIS BLOCK File No.				
No	rthrop	Grumman (	Corporatio	n	/siz	115-EX-PL-1	999		
c/c	Verner	, Liipfer	t, Attn:	Lisa M. Fo	wlkes	1) LAIL	/ / /		
901	15th S	treet, N.	W. Suite	700					
Was	hington	DC 20005	5-2301						
2(a).	Application fo	r (check only one	box)		2(b). For Modificati	on indicate below:			
New station Modification of existing authorization					File No.: Call Sign:				
	the change is		eplacement of para	de all particulars to ameters in the curren	nt authorization.	ther addition or replacemen			
∐ F	REQUENCY -		EMISSION -		POWER -	LOCAT	ION -		
		ARS - addition or replantation (see instru		low or in attached EXHIB	IT No.	)			
		attor (see noa a				MODULATING	NECESSARY BANDWIDTH		
Frequency (state whether kHz or MHz)		POWER			EMISSION	SIGNAL	(kHz)		
275	(A) 2.5 MHz	(B)	(C) 3625MW	(D)	(E) 5M01P0N	(F) 1.08uS PW	(G) 5014		
	0.5 MHz		3625MW	peak	5M01P0N	.118uS RISE	5014		
(B) (C) (D) (E) (F)	Insert maximum Insert maximum Insert "MEAN List each type Insert as appro (1) the maximum (2) maximum (3) frequency (4) pulse dura For complex end Describe how the	m R.F. output po m effective radia " or "PEAK" (Se of emission separate priate for the typ num speed of key a audio modulatin deviation of carration and repetiti missions, describ the necessary bar	wer at the transmitted power from the definitions in Parately for each free of modulation: ring in bands; ag frequency; cier; on rate.  e in detail in the sadwidth was determined.	tter terminals. Speci e antenna (If pulsed art 5). quency. (See Section pace provided below mined in space provi	emission, specify peal 2.201 of FCC Rules.)  7.  ided below.	power). Specify units.			
(	Calculat	ed using	NTIA Man	ual, Annex	J		FCC Form 442 - Page 2		

· 5(a).	Proposed location of transmitt	ter and transmitting	g antenna (che	ck only one b	ox to indicate type of	operation	):	
•	X FIXED/BASE	□ мові	LE '	. $\square$	BASE AND MOB	ILE		
5(b).	If permanently located at a FI	XED location, give	below:		5(c). If mobile,	, describe t	the exact area of operation	
State	County	City or Town						
MD	Carroll	Sykesvi	lle		_			
Numb	er and street (or other indication	on of location)						
7301	Sykesville RD							
5(b)(1	). Enter geographical coordinates ex	cact to the nearest secon	nd (see instruction	10)	5(c)(1) Enter geog mobile operation (see	•	rdinates of the approximate center of 10)	
North L	atitude (DD-MM-SS)	West Longitude (DD-	MM-SS)	#	North Latitude	н	West Longitude	
39	22 29	076	57 39	)				
5(d).	Datum (see instruction 10):		. NAD 27	×	NAD 83			
6.	Is a directional antenna (other If "YES", give the following i	•	YES	X	NO			
	(a) Width of beam in degrees:		oint					
	(b) Orientation in horizontal p	-	Om(	(c)	Orientation in verti	cal plane		
	(o) Orientation in nonzonar p	,mic		(0,	Orientation in verti	car praire		
7.	Is this authorization to be used	d for fulfilling the r	equirement of	a governmen	t contract with an ag	ency of the	2	
	United States Government?			1527	NO			
	If "VEQ" attach as EVLIDIT	No	YES		NO	nt project	agangy and contact number	
	If "YES", attach as EXHIBIT							
8.	Is this authorization to be used jurisdiction of a foreign govern	•	purpose of dev	eloping radio	equipment for expor	rt to be em	ployed by stations under the	
	Jurisandian of a foreign gover	innesit:	☐ YES	ΙXΊ	NO			
	If "YES", attach as EXHIBIT	No				t number a	and the name of the foreign	
	government concerned.	-						
9.	To this authorization to be used	1 for morriding som		econtial to a r	anarch project? (Th	a <del>-</del> adia aar	mmunication is not the objective of	
9.	the research project).	to broatening com	minimicarions e	SSCIILIAI IU A I	esearch project? (Th	e radio cor	infinite and is not the objective of	ı
	and account projects).		YES	X	NO			
	If "YES", attach as EXHIBIT	No	, a narrative s	tatement prov	iding the following i	nformation	n:	
	(a) A description of the nature	•	•					
	(b) A showing that the commu		-	-	the research project	involved.		
	(c) A showing that existing co	ommunications faci	lities are inad	equate.				
10.	If all the answers to Items 7, 8	, and 9, are "NO",	attach as EXF	IIBIT No. 2	, a narra	ative state	ment describing in detail the	_
	following: (a) The complete program of 1		imantation ara	magad ingladi	na description of ass	viament on	ed theory of operation	
	(b) The specific objectives so			poseu meruar	ng description of equ	принен ан	d theory of operation.	
	• •	•		nise of contrib	ution to the develop	ment exte	nsion, expansion, or utilization of	
	the radio art, or is along li				and to the develop	mom, care	inton, enpunion, or annualion or	
11	(a). Give an estimate of the lea		ill be required	to complete t	he program of exper	imentation	proposed in this	
	(b) If less than 2 years, give the required:		months that t	he authorizati	on requested in this	application	n will be	
12.	Would a Commission grant of	this application co	me within Sec	tion 1.1307 o	f the FCC Rules, suc	h that it m	av have a significant	_
	environmental impact (see ins							
			YES YES	X	NO			
	If "YES", attach as EXHIBIT	No	an Environme	ntal Assessm	ent as required by Se	ection 1.13	11.	
13.	List below transmitting equip	ment to be installed	l (if experimen	ntal, so state):		<del></del>		_
	MANUFACTURER			MODEL NUM	BER		NO. OF UNITS	
	Northrop Grumma	n Corporat	ion	1D18000	G01		1	

14.	Is the equip	ment listed in Item 13	capable of station identification	ation pursuant to Section 5.1	52?	☐ YES	X NO
15.	Will the ante	enna extend more that will the proposed anto	n 6 meters above the ground enna be mounted on an exis	ting structure other than a b	ng building, will it extend mo uilding?	re than 6 mete	ers above the
	lf "YES", gi	ve the following (see					
	(a) Overall	height above ground t	o tip of antenna is	12 meters.			
	(b) Elevation	n of ground at antenn	a site above mean sea level	is157	meters.		
		e to nearest aircraft la			4 0 4	kilometers.	
			existing man-made structur		towers, etc.) which, in the or	oinion of the a	pplicant,
			<del>_</del>		a 7.6m tall to	wer loc	ated
				_	the side of a h		
	antei	nna is belo	w the peak of	the hill.			
			, a vertical prognificant features. Clearly in	ofile sketch of total structure	e including supporting building particulars of aviation obs	ıg, if any, givi struction lighti	ng heights ir ing already
16.	Applicant is:	(Check only one box)			-		
		DUAL AS	SOCIATION PA	ARTNERSHIP X C	CORPORATION		
	OTHER	(describe in space pro	ovided below)				
17.	Is applicant a	a foreign government	or a representative of a forei	ign government?		☐ YES	X NO
19					ed or had any application for		
18.		it of any party to this a is Commission?	ippincation had any PCC sta	non needse of permit revok	ed of flad any application for	permit, ncens	e or renewal
						YES	X NO
	If "YES", att	ach as EXHIBIT No.	, a stateme	ent giving call sign of licens	e or permit revoked and relat	e circumstanc	es.
19.	Will applicar	nt be owner and opera	tor of the station?			X YES	☐ NO
20.			mber (include area code), as	nd Internet e-mail address (	if applicable) of person who o	an best handl	e inquiries
		this application.	Spectrum Licens	sing Specialist	(410)765-5626	(voice)	١
			il.northgrum.co	_ <del>-</del>	(410) 765-6898	(fax)	,
21.		ANTI-DRUG ABUSE C	<del></del>				
	By checking	"YES", the individua	l applicant certifies that he		ense. This requires that he or		
					pursuant to Section 5301 of t		
		unincorporated association, outline of a "party" for these pu					
	1.2002(b).		, p		anon or a party for alloso pe		. 5220
						X YES	□ ио
22.	List below al	ll exhibits in numerica	l sequence and the item nur	mber of form requiring the e	exhibit identified.	<u></u>	
	(HIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	птем но.	OF FORM
1 2 3		4					
<del>-</del>		10 15e				<del> </del>	
<u>~</u>	— <u> </u>	100				<del> </del>	
		1	1	1	l — — — — — — — — — — — — — — — — — — —	1	

### 23. CERTIFICATION:

Title 47, Section 503).

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:
  - (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.

Signed and dated this	222	day of November	, 19_99
Name of Applicant No.	orthrop Grumman C		
By John H. Mu	·	orrespond with name given on page 1)	
	(print)	(signature)	
Title Vice Pres	ident & Corporat	e Secretary//	
Check appropriate classification	ation:		
Individual applicant	Member of applicant par	tnership	
Authorized employee	▼ Office of applicant corporation  ▼ Office o	ration or association	

## 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.