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

1.	 Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See instruction No. 4) 					File No. 9402 - Ex - ST. 700						
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No	rthrop (irum	man Co	rpor	ation	l						
c/	o Vernei	, L	iipfer	t, A	ttn:	John Kneue	r					
90	1 15th 8	Stree	et, N.	W. S	uite	700						
Wa	shington	1 DC	20005	5 ~2 30:	1							
2(a)	. Application i	or (chec	ck only one	box)	<u> </u>		2(b). For Modif	ication indicate	below:			
	New station		X Mod	Efication of (existing aut	horization	File No.: 0095-ex-p1-2000 Call Sign: WB2XIY					
3.						de all particulars to	be modified. Ches					
\Box	_		ition or a r	_	•	ameters in the curre	rit authorization. POWER -			TION -		
Ш	FREQUENCY -	_			1881ON -		-			.TION - 1571		
į	addition or [_ repeac	cement/	Ц	acidilion of	replacement?	☐ acception or	replacement?	zo	amon or K	replacement?	
	OTHER PARTICU	LARS - ad	idition or repl	acement? (I	Describe be	elow or in attached EXHIB	IT No)				
	Increase	fl:	ight 1	level	fron	a 3000m to	5500m (se	e change	in Exhi	ibit 3	>	
4. Pa	uticulars of Op	eration ((see instru	ction belo) 		γ					
_	Frequency (state righter lifts or bills)	}		Р	OWER		EMISSION	} M	MODULATING SIGNAL		NECESSARY BANDWIDTH (kHz)	
	(A)	(B)		(C)		(D)	(E)	İ	(F)	1	(G)	
	0-450 MF			100		peak	2M95Q0N		Pulse	2950		
42	0-450 ME	<u>1210</u>	kW	100	kW	peak	5M53Q0N	LFM	Pulse	5530		
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		+										
\equiv												
				 			 			 		
		+-		 					····	 -		
								 -				
			_									
		-	-	_	-	. (If more space is re itter terminals. Spec	•	EXHIBIT No		.)		
(B) (C)						nuer terminaus. Spec ne antenna (If pulsed		neak nawer) Si	ecific unite			
(D)				_		• •	emission, specity	pear power). S	really units.			
(E)		MEAN" or "PEAK" (See definitions in Part 5). In type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)										
(F) Insert as appropriate for the type of modulation:												
	(1) the max	imum speed of keying in bauds;										
	(2) maximu	m audio	m audio modulating frequency;									
		-	y deviation of carrier;									
	(4) pulse du		•									
<i>(</i> ^						space provided below						
(G)			-	nawiatii,	was detei	mined in space prov	inca Déiam,				Manua 440	
	See exi	1101	C T							FCC	Form 442 - Page 2 March 1996	

5(a).	Proposed location of transmit	er and transmittin	g antenna (ci	heak and vione he	x to indicate t	voe of operation	1):			
J(4).	FIXED/BASE	MOB			BASE AND		√ -			
5/5\		_		5(c). If mobile, describe the exact area of operation						
State	If permanently located at a FIXED location, give below: County			4						
State	County	City di 10w	'11		Airborne, up to 5500 mAMSL See exhibit 2 for areas of					
Numb	er and street (or other indication	on of location)			1		ior areas or			
		,			operat	ion.				
5(b)(1	Enter geographical coordinates on	cact to the nearest seco	and (see instruct	tion 10)		er geographical cou ilon (see Instruction	rdinates of the approximate center of 10)			
North L	atitude (DD-MM-SS)	West Longitude (DD	-MM-SS)		North Latitud	8	West Longitude			
	P 1 1 H	•	•	•	•		0 t H			
		<u> </u>					<u> </u>			
5(d) .	, , , , , , , , , , , , , , , , , , ,				NAD 83					
6.	Is a directional antenna (other If "YES", give the following:		☐ YES	X	NO					
	(a) Width of beam in degrees		noint							
	(b) Orientation in horizontal			(c)	Orientation in	Orientation in vertical plane				
	(o) Orientement in noticement				Ottellemion II	· vortioni pinio				
7.	Is this authorization to be use	d for fulfilling the	requirement	of a governmen	contract with	an agency of th	e			
	United States Government?		- vec	W70						
	If "YES", attach as EXHIBIT	'No	☐ YES	X)	NO	emment project	agency and contact number			
	•		_			• •	•			
8.	Is this authorization to be use jurisdiction of a foreign gover		purpose of d	leveloping radio	equipment for	export to pe er	nployed by stations under the			
	Jungmenen or a reseign Kover	mich.	☐ YES	1071	NO					
	If "YES", attach as EXHIBIT	No.	, the follow	اکا ing information:	Provide the or	ontract number	and the name of the foreign			
	government concerned.									
			7							
9.	is this authorization to be use the research project).	a for providing cor	monunication	s essential to a r	esearch projec	t? (The radio od	mmunication is not the objective of			
	min i nonem ery by olives).		☐ YES	וצו	NO					
	If "YES", attach as EXHIBIT	No	, a parrative	e statement prov دع	iding the follo	wing informatio	xx:			
	(a) A description of the natur	e of the research p	roject being	conducted.						
	(b) A showing that the comm		-	_	the research p	project involved				
	(c) A showing that existing o	ommunications fac	ilities are in	adoquate.						
10.	If all the answers to Items 7.	R. and Q. are "NO"	attach as E.	XHIBIT No. 3	 -	a narrative stat	ement describing in detail the			
10.	following:	b, and 110) milanti da 12	بيايين ١٩٥٠ ١٤٤ عملانه	 '	a liani ani at arat	men descriving in denth dis			
	(a) The complete program of	research and expe	rimentation p	proposed includi	ng description	of equipment s	and theory of operation.			
	(b) The specific objectives sought to be accomplished.									
	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 least application: 2 vears		vill be requir	ed to complete t	he program of	experimentation	n proposed in this			
	(b) If less than 2 years, give t		n months the	it the authorizati	on requested is	n this application	m will be			
	required:	THE NAME OF STREET			ou reducesce t	ii uno appiroun	A1 W31 V0			
12.	Would a Commission grant of	this application of	ome within S	Section 1.1307 o	the FCC Rule	s, such that it	nay have a significant			
	environmental impact (see ins									
			☐ YES	X	NO					
	If "YES", attach as EXHIBIT	No	_ an Environi	mental Assessm	ent as required	by Section 1.1	311.			
13.	List below transmitting equip	ment to be installe	d (if properin	nental so statel	·					
, . .	MANUFACTURER	with the An Hisparic	(vv>horni	MODEL NÚM			NO. OF UNITS			
	Northrop Grumman Corporation Experime						1			
	•	-		•	_					

14.	Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152?					☐ YES	X 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	⊠ NO							
	· / -	e the following (see is	•								
	• •	-	tip of antenna is	· · · · · · · · · · · · · · · · · · ·							
	(b) Elevation	-									
	` '	(c) Distance to nearest aircraft landing area is kilometers.									
		(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.									
		pove ground for all sig			including supporting building particulars of aviation obs						
16.	Applicant is:	(Check only one box)									
		UAL AS	SOCIATION PA	krtnership 🔀 C	CORPORATION						
	C OTHER	(describe in space pro	vided below)								
	L	(,								
			•	"							
17.			r a representative of a forei		· · · · · · · · · · · · · · · · · · ·	☐ YES	X NO				
18.		Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission?									
	demod by the	2 Collinosion:				☐ YES	⊠ NO				
	If "YES", att	ach as EXHIBIT No.	, a stateme	ent giving call sign of licens	e or permit revoked and relat	e circumstanc	×8.				
19.	Will applicar	nt be owner and operat	or of the station?			X YES	□ио				
20.		itle, and telephone nu this application.	mber (include area code), a	nd Internet e-mail address (i	if applicable) of person who	an best handi	le Inquiries				
		••	Spectrum Licens	sing Specialist	(410)765-5626	(voice)				
			l.northgrum.co		(410)765-6898		•				
21.	By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti-Drug Abus of 1988, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no par										
the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these pull-2002(b).							/ CPR				
						X YES	□ №				
22.	List below al	l exhibits in numerica	l sequence and the item nur	mber of form requiring the e	exhibit identified.						
Ē	SCHOOL NAMES	EXHIBIT NUMBER	ITEM NO. OF FORM								
I		4a-g									
2		5c				ļ					
3		10									
_											

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:
 - (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	15'-	day of_August	, 19 <u>2000</u>					
Name of Applicant Nor	throp Grumman Corpor	ation						
	(must correspond with a		1					
By John H. Mul	lan							
	(print)		(signature)					
Title <u>Vice Presi</u>	Title Vice President & Corporate Secretary							
Check appropriate classificati	ion:							
Individual applicant	Member of applicant partnership							
Authorized employee	Office of applicant corporation or a	ssociation						
VILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18 Section 1001), AND/ OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).								

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 everage 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 (3080-0085), Weshington, DC 20554, DO NOT send completed applications to this address, individuals are not required to respond to this collection unless it displays a currently velid 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.