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

i. Applicant's N (Street addre No. 4)		Office address and ZIP Code. S	Gee instruction	File No.	O NOT WRITE IN TH	IIS BLOCK	
Northrop Grumman Corporation 1840 Century Park East				5263-EX-PL-96			
				02.0	0200 2781270		
Los Ar	ngeles, CA 9	90067					
Attn:	James C.	Johnson				K	
(a). Application	for (check o	nly one box)		2(b). For Modifice	tion indicate below		
X New station	□ Мо	dification of existin	ng authorization	File No:	Call	Sign: WAZXE-	
3. Application fo	or modification	n indicate whe	ther change is	an addition or repl	acement of (check	all that apply)	
FREQUENCY	□ ЕМ	ISSION	POWER	LOCA	TION		
_			on a CAMPUT No.	\			
OTHER PART	ICULARS (describe	e below or in attac	ched EXHIBIT No.	, , , , , , , , , , , , , , , , , , ,			
. Particulars of	Operation (se	e instruction b	elow)	T	1 100 III A T II 10	NECCCCADY BANDWIDTH	
Frequency (state whether kHz or MHz)		POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	
.73 GHz	3100W	11.25MW	Peak	640 M1Q3N	Linear Fm pulse 180 us	640,100	
		 			PW 2000 PPS		
					deviation 320	NHZ	
A) List each f	requency or f	requency band	l separately. (If	more space is requ	ired, attach as EXH.	IBIT No	
2) Incort may	imum RF out	out power at th	ne transmitter t	erminals. Specify u	nius.		
C) Insert max	imum effectiv	re radiated pov	ver from the a	ntenna (If pulsed e	mission, specing peo	n powern	
)) Insert "ME	AN" or "PEAK"	(See definition	or each freque	ncy. (See Section 22	201 of FCC Rules.)		
E) List each to	ype or emissio	the type of m	odulation:				
		of keying in be					
		llating frequen					
	cy deviation						
(4) pulse di	iration and re	epetition rate.					
For comple	x emissions.	iescribe in deta	il in the space	provided below.	d bolow		
				ed in space provide	a below.		
Bn = $\frac{1}{1}$.79 + 2D =	1.79 	640 = 640.0	099 MHz			
√ ^t	r 🗸	, ,					

5(a). Pi	roposed location of trans		itting antenn	a (check	only one	e box)			
· <u></u>	FIXED/BASE	☐ MOBILE		\mathbf{x}	BASE A	AND MOE	BILE		
5(b). If	permanently located at	a fixed location, g	ive below:				describ	e the exac	t area of
State	County	City or Town			-	peration	12	£ DUT •	,
<u> MD</u>	Anne Arundel	<u> Linthicum</u>						f BWI ai	•
Numbe	er and street (or other in	dication of location	n)		Alrool	rne – 3	, UUU	ft. max	altitude.
7323	Aviation Blvd.							·	
5(c). En	ter geographical coordiantes ex	act to the nearest sec	ond		1				he approximate obile applications)
North La	titude	West Longitude	· · · · · · · · · · · · · · · · · · ·		North La			West Longi	
0	, ,,	0	, ,	•	0	,	"	0	, ,,
<i>39</i>	11 09	76	41 10		3 9	10	26	76 40	0 12
	directional antenna (ot)	· · · · · · · · · · · · · · · · · · ·		(C)					
	YES", give the following		☐ YES	K	NO				
	Width of beam in degree			-> 0=1==4		1	mla m.a		
(4)	Orientation in horizontal	plane		e) Orienu	ation in	vertical	plane		
7. Is th	his authorization to be u	sed for fulfilling t	he requireme	nt of a g	governme	ent conti	ract wi	th an agen	cy of the
Uni	ted States Government?		☐ YES	X	NO				
	YES", attach as EXHIBIT I ncy and contact number.		a narrative st	atement	describin	ng the g	overnn	ent projec	t,
	nis authorization to be us				ing radio	o equipm	nent fo	r export to	be employed
by s	stations under the jurisd	iction of a foreign							
			☐ YES		NO				
	'ES", attach as EXHIBIT N ne of the foreign govern		he following	informa	tion: Pro	vide the	contra	ct number	and the
	nis authorization to be us on is not the objective o			ns essent	tial to a r	research	projec	t? (The rad	io communi-
	•	-	YES YES	\mathbf{k}	NO				
	!ES", attach as EXHIBIT N A description of the natu					the fol	llowing	information	on:
	A showing that the comm			_		r the res	earch 1	oro.ject inv	olved.
	A showing that existing								
					1				
in d	ll the answers to Items 7 etail the following:								ent describing
	he complete program of and theory of operation.	research and exp	erimentation	proposed	i includir	ng descr	iption (of equipme	nt
	the specific objectives so	ought to be accomp	lish e d.						
(c) F	low the program of exp	erimentation has a	reasonable p					velopment	, extension,
	expansion, or utilization								
	ve an estimate of the les	_	will be requir	ed to cor	mplete th	e progra	am of e	xperiment	ation proposed
	this application. 12 mO less than 2 years, give the		n months the	at the au	thorizatio	מווסס	sted in	this applic	ration
wi	ll be required.								
	ould a Commission grant		come within	n Section	1.1307 of	the FCC	C Rules,	such that	it may have a
_	nificant environmental	_	☐ YES	K.	NO				
If ———	you answer "YES", submi	t an Environments	l Assessment	required	d by Sect	lon 1.1311	. <u>.</u>		
	t below transmitting equal to the second section of the second se	uipment to be insta	alled (if expe		, so state)):		N	IO. OF UNITS
	rthrop Grumman Corp	oration	T-1543/.		3				1
/ VU	roniop arumman curp	OI G UI UI I	1-12427	רטו ער וטי	,				ı

14.	Is the eq	uipment listed in	Item 13 capable of sta	ation identification purs	suant to Section 5.152?	YES		NO	
15.	Will the more tha than a b	THE C MERCIS ADOVE	nore than 6 meters a the building, or will	bove the ground, or if r the proposed antenna h	oe mounted on an exi	ng building, sting struct	will it ure oth	exter er	
	If "YES", (a) Overa	give the following all height above gr	(see instruction 9): round to tip of anten	na is me					
	(b) Eleva	tion of ground at	antenna site above r	nean sea level is	meters.				
	(c) Distance to nearest aircraft landing area is kilometers.								
	(d) List a the o	ny natural format	ions of existing man cant, would tend to s	-made structures (hills, shield the antenna from	trees water tanks to	Wers etc)	which i	n	
	n any	diving neights in	i meters above grour	cal profile sketch of to id for all significant fe hting already available.	atures. Clearly indica	g supporting	g build: portion	ing,	
16.		is (Check only one		nung aiready available.	· ·				
	□ IMDI	VIDUAL AS	SSOCIATION	PARTNERSHIP	CORPORATION				
	□ отне	R (describe below))						
		·			·····				
7.				tative of a foreign gov		☐ YES		NO	
8.	Has application	ant or any party : n for permit licen	to this application has	d any FCC station licen by this Commission?	se or permit revoked	or had any	7		
				statement giving call sig	en of Hoongo on norm	☐ YES		NO	
	revoked a	nd relate circumst	ances.	waterment Brand can sig	n or needse or perm	11			
9.	Will applie	cant be owner and	d operator of the state	ilon?		X YES		NO	
0.	Give name to this app	e, title, and telepho	one number (include	area code) of person w	ho can best handle in	nquiries per	taining		
	St	teve Balaz, Fre	equency Coordina	tor, (410)765-5626					
1.	APPLICAN	T ANTI-DRUG ABU	JSE CERTIFICATION:						
	21 U.S.C. 86 association	rederal benefits, the case on the case on the case of	hat includes FCC ben f a non-individual s applicant is subject t	the case of an individue of its, pursuant to Section applicant (e.g., corporation a denial of federal bethese purposes, see 47 Ci	n 5301 of the Anti- E n, partnership, or oth enefits, that includes	Orug Abuse her unincor FCC benefi	Act of porated ts, purs	1988, uant	
 2.	List balans	all owhibite in	monion) necessiti	3 41 - 24				10	
	List below	an exhibits in hu	merical sequence and	i the item number of fo	orm requiring the ex	hibit identif	ied.		
EXHI	BIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM N	O. OF FOR	м	
	1	10				1			
				-7 to		-			

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	96					
Name of Applicant Northrop Grumman Corporation						
By James C. Johnson James L. Jakes L.						
(print) Title Vice President and Corporate Secretary						
Check appropriate classification:						
☐ Individual applicant ☐ Member of applicant partnership						
Authorized employee 🗵 Office of applicant corporation or association						
WILLFUL 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 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 47 CFR 0.459 of the 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. 98-579, 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.