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) 				DO NOT WRITE IN THIS BLOCK File No.				
No	Northrop Grumman Corporation				5927-EX-PL-97				
c/	o Verner,	Liipfert et	t al Attn:	T. Keller	372/°L1/L				
90	1 15th Str	eet, N.W.,	Ste 700						
Washington, D.C. 20005									
2(a)). Application fo	or (check only one	box)		2(b). For Modification indicate below:				
			ification of existing author		File No.: Call Sign: WAZYON				
				le all particulars to meters in the curre	be modified. Check either authorization	r addition or replacemen	t to indicate whether		
	FREQUENCY -		EMISSION -		POWER -	LOCAT	ION -		
	addition or	replacement?	addition or	replacement?	addition or rep	lacement? addi	tion or replacement?		
,		•	-	_		_	_		
	OTHER PARTICULA	ARS - addition or repla	cement? (Describe helo	w or in attached FXHIR	IT No.	1			
ш	OTTLICT ACTIONS	A to a godinor or repla	Cerroini (Describe sere	W OF W BUILDING CAUTE		- /			
4. Pa	rticulars of Oper	ration (see instruc	tion below)						
	Frequency (state		POWER		EMISSION	MODULATING	NECESSARY BANDWIDTH		
w	hether ki-k; or Mi-k;) (A)	(B)	(C)	(D)	(E)	SIGNAL (F)	(kHz) (G)		
9.	2-10 GHz	25.1kW	501.2MW	peak	31M8P0N	200nS Pulse	31,800		
	-								
_				-					
				 					
				<u> </u>					
(A) (B)	_			If more space is receiver terminals. Speci	quired, attach as EXHIBI fy units.	ΓNo. 1)			
(C)					emission, specify peak po	wer). Specify units.			
(D)	Insert "MEAN	or "PEAK" (See	e definitions in Par	t 5).					
(E)	(E) List each 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 maximum speed of keying in bands;								
(F)									
	* -	num speed of keyr audio modulating	_						
		deviation of carri							
	• •	tion and repetitio							
		-		ace provided below	.				
(G)	-	•	_	ined in space provi					

5(a).	Proposed location of transmitt FIXED/BASE	ter and transmitting a		ck only one bo	ox to indicate type BASE AND MC	-	n):			
5(b).					5(c). If mobile, describe the exact area of operation					
State					7 ` ′	. ,				
NY.	SUFFOLK	MELVILLE]	·						
Numb	per and street (or other indication	on of location)								
65 M	ARCUS DRIVE									
5(b)(:). Enter geographical coordinates ex	act to the nearest second	(see instruction	10)	5(c)(1) Enter ge mobile operation (• .	rdinates of the approximate center of 10)			
North L	atitude (DD-MM-SS)	West Longitude (DD-M	M-SS)		North Latitude		West Longitude			
40	45 37	073 2	24 49)		**	, ,			
5(d).	Datum (see instruction 10):		X NAD 27		NAD 83					
6. Is a directional antenna (other than radar) used? YES X NO If "YES", give the following information:										
	(a) Width of beam in degrees		nt							
	(b) Orientation in horizontal p				Orientation in ver	tical plane				
	Is this authorization to be used	for fulfilling the rec	mirement of	a government	contract with an	agency of the	3			
~~.	United States Government?	i for furning the rec	quirement of	a government	contract with air	agency of the	•			
			X YES		NO					
	If "YES", attach as EXHIBIT	No. 2,	a narrative st	tatement descr	ribing the governn	ent project,	agency and contact number.			
8.	Is this authorization to be used jurisdiction of a foreign govern		rpose of dev	eloping radio	equipment for exp	ort to be em	ployed by stations under the			
		[YES NO							
	If "YES", attach as EXHIBIT government concerned.	No,	the following	g information:	Provide the contra	act number a	and the name of the foreign			
9.	Is this authorization to be used the research project).	for providing comm	unications e	ssential to a re	esearch project? (7	The radio cor	mmunication is not the objective of			
	,	[YES	X	NO					
	If "YES", attach as EXHIBIT			_	iding the following	g information	n:			
	(a) A description of the nature		_							
	(b) A showing that the commu		_	-	the research proje	ect involved.				
~ .	(c) A showing that existing co	mmunications facilit	nes are inade	equate.						
1Ú.	If all the answers to Items 7, 8 following:	, and 9, are "NO", at	tach as EXH	IBIT No	, a na	rrative state	ment describing in detail the			
	(a) The complete program of r	esearch and experim	entation pro	posed including	ng description of e	quipment ar	nd theory of operation.			
	(b) The specific objectives sou	b) The specific objectives sought to be accomplished.								
	(c) How the program of exper- the radio art, or is along lin	nsion, expansion, or utilization of								
11	(a). Give an estimate of the ler application: 3 years	gth of time that will	be required	to complete th	ne program of exp	erimentation	proposed in this			
	(b) If less than 2 years, give the required:	e length of time in n	nonths that th	he authorizatio	on requested in thi	s application	n will be			
12.	Would a Commission grant of	this application come	e within Sect	tion 1.1307 of	the FCC Rules, s	uch that it m	ay have a significant			
	environmental impact (see inst	ruction 11)?	_	_						
	If "YES", attach as EXHIBIT 1	Noar	YES Environmer		NO nt as required by S	Section 1.13	11.			
12	List halous tono mitting a series	ant to be installed (if averaging	tol as states:						
13.	List below transmitting equipm MANUFACTURER Northrop Grumman	•	· .	nai, so state): MODEL NUME Experim			NO. OF UNITS 2			

14.	Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152?				152?	YES 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? X YES NO								
	If "YES", gi								
			o tip of antenna is						
	(b) Elevation								
	(c) Distance	kilometers.							
			existing man-made structur ma from aircraft and thereby		towers, etc.) which, in the o hazard of the antenna.	pinion of the a	pplicant,		
					e including supporting buildi ing particulars of aviation ob				
. J.	Applicant is	(Check only one box)							
		DUAL AS	SOCIATION PA	ARTNERSHIP X (CORPORATION				
	OTHER	(describe in space pro	ovided below)						
	T1:4	C							
<u>17.</u>			or a representative of a fore			YES	X NO		
18.		nt or any party to this a is Commission?	application had any FCC sta	tion license or permit revok	ed or had any application for	_			
	If "YES", at	tach as EXHIBIT No.	, a stateme	ent giving call sign of licens	se or permit revoked and rela	YES te circumstance	X NO es.		
<u> </u>	Will applica	nt be owner and opera	tor of the station?			X 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. Steven F. Balaz, Spectrum Licensing Specialist (410)765-5626 (voice) balaz.s.f-@postal.essd.northgrum.com (410)765-6898 (fax)								
21.									
22.	List below a	ll exhibits in numerica	al sequence and the item nu	mber of form requiring the e	exhibit identified.				
E	XHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. (OF FORM		
1		4a-g							
1 2 3		7							
<u> </u>		15e				1	<u></u>		

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	30 LL		day of October		, 19 <u>97</u>		
	Name of Applicant Northrop Grumman Corporation (must correspond with name given on page 1)							
	By James C. 3	Johnson (print)	Jana	c. gl	(signature)			
	Title Vice President and Corporate Secretary							
	Check appropriate classification:							
	☐ Individual applicant	Member of a	applicant partnership					
_	Authorized employee	Office of app	plicant corporation or asso	ciation				
OR F	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, Itle 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 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.