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

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.				
Northrop Grumman Corporation				0220-EX-PL-1999				
c/o Verner	, Liipfe	rt, Attn:	Lisa M. Fo	wlkes UZZ	W LA ILI	111		
901 15th S	Street, N	.W. Suite	700					
Washington	DC 2000	5-2301						
2(a). Application for	or (check only or	ne box)		2(b). For Modification indicate below:				
X New station	☐ Mo	dification of existing aut	horization	File No.:	Call S	ign;		
					er addition or replacemen			
the change is	an addition or a	replacement of par EMISSION -	ameters in the curre	nt authorization. POWER -	LOCAT	ION -		
addition or	replacement?	addition or	replacement?	addition or 7 re	eplacement? addi	ition or replacement?		
) p							
OTHER PARTICUL	ARS - addition or rep	lacement? (Describe be	elow or in attached EXHIB	31T No)			
4. Particulars of Ope	ration (see instru	action below)						
Frequency (state whether kHz or MHz)	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)		
(A) 35500MHz	(B) 10W	(C) 1000W	(D)	(E) 558M1Q0N	(F) 480MHz LFM	(G) 558100		
33300HHZ	TOM	1000%	peak	JJOHIQON	8us PW	228100		
					50 kHz PRF			
					comp 3840:1			
	<u> </u>				_			
	l	<u> </u>						
(B) Insert maximu (C) Insert maximu	ım R.F. output po ım effective radio	ower at the transmi	tter terminals. Speci e antenna (If pulsed	-	OOWER). Specify units.	,		
` '	•	ee definitions in P	•	**** ***** **				
••	-	•	quency. (See Section	2.201 of FCC Rules.)				
••	•	pe of modulation:						
` '	mum speed of ke	•						
	n audio modulati y deviation of car							
` ' •	ation and repetit	•						
· · · -	=		pace provided below	y.				
-			mined in space provi					

5(a).	Proposed location of transmit	ter and transmitting antenna (ch 	-	to indicate type of operation BASE AND MOBILE	n):				
SCh									
State	If permanently located at a FIXED location, give below: County City or Town			5(c). If mobile, describe the exact area of operation See exhibit 1					
Numi	ber and street (or other indication	on of location)		-					
5(b)(1). Enter geographical coordinates ex	ract to the nearest second (see instruction	on 10)	5(c) (1) Enter geographical coordinates of the approximate center of mobile operation (see instruction 10)					
North I	atitude (DD-MM-SS)	West Longitude (DD-MM-SS)	н	North Latitude	West Longitude				
5(d).	Datum (see instruction 10):	NAD 2	27	NAD 83					
6.	Is a directional antenna (other If "YES", give the following i	• —	NO						
	-	at the half-power point							
	(b) Orientation in horizontal plane			(c) Orientation in vertical plane					
7.	Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government?								
		YES	X :						
	If "YES", attach as EXHIBIT	No, a narrative	statement descri	bing the government project,	agency and contact number.				
8.	Is this authorization to be used jurisdiction of a foreign govern	for the exclusive purpose of deument?	eveloping radio e	quipment for export to be en	nployed by stations under the				
		☐ YES	X 1						
	If "YES", attach as EXHIBIT government concerned.	No, the following	ng information: F	Provide the contract number a	and the name of the foreign				
9.	Is this authorization to be used the research project).	for providing communications	essential to a res	earch project? (The radio co	mmunication is not the objective of				
		YES	X 1						
		No, a narrative	-	ling the following information:					
	•	of the research project being of		h					
	• •	mications facilities requested ar mmunications facilities are inac	•	ne research project involved.					
	(c) A showing that existing of	minumeations facilities are made	ucquate.						
10.	If all the answers to Items 7, 8 following:	, and 9, are "NO", attach as EX	HIBIT No. 2	, a narrative state	ment describing in detail the				
	· · · · · · · ·	esearch and experimentation pr	oposed including	description of equipment ar	nd theory of operation.				
	(b) The specific objectives sou	-	6. 4.9.						
	(c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization the radio art, or is along line not already investigated.								
11	(a). Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: 12 months								
	(b) If less than 2 years, give the required:	requested in this application	n will be						
12.		this application come within Se	ction 1.1307 of t	he FCC Rules, such that it m	ay have a significant				
	environmental impact (see inst	ruction 11)?	[X] 1	JO					
	If "YES", attach as EXHIBIT 1			t as required by Section 1.13	11.				
13.	List below transmitting equipm	nent to be installed (if experime	ental, so state):						
	MANUFACTURER		ER	NO. OF UNITS					
	Northrop Grumman	n Corporation	ental	1					

14.	Is the equip	ment listed in Item 13	capable of station identification	ation 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?								
	If "YES" o	ive the following (see	instruction 9).	∑ NO					
		•	o tip of antenna is	matara					
				isneters.	m otora				
						1.1			
		e to nearest aircraft lar		a 111		kilometers.			
	would to	natural formations of end to shield the anten	existing man-made structure in a from aircraft and thereby	res (nins, trees, water tanks y minimize the aeronautical	, towers, etc.) which, in the o	pinion of the a	ppiicant,		
		bove ground for all sig			e including supporting buildi ing particulars of aviation ob				
16.	Applicant is:	: (Check only one box)							
		DUAL AS	SOCIATION D	ARTNERSHIP X	CORPORATION				
	OTHER	(describe in space pro	vided below)						
17.	Is applicant	a foreign novemment	or a representative of a fore:	ion covernment?	 	☐ YES	X NO		
18.		nt or any party to this a is Commission?	application had any FCC sta	tion license or permit revok	ted or had any application for	permit, licens	e or renewal		
	If "YES", att	tach as EXHIBIT No.	, a statem	ent giving call sign of licens	se or permit revoked and rela				
19.	Will applicat	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							
		this application.		and a second and a second	· (410) 765 5606	, , ,			
			spectrum licens		t (410)765-5626 (410)765-6898				
) 1		ANTI-DRUG ABUSE C)III	(410) /65-6698	(IdX)			
21.	By checking denial of fede of 1988, 21 U	"YES", the individual eral benefits, including U.S.C. 862. A non-indi	applicant certifies that he of gFCC benefits, as a result of vidual applicant, e.g., corporations	of a drug offense conviction or attention, partnership or other	ense. This requires that he or pursuant to Section 5301 of a runincorporated association, nition of a "party" for these pu	the Anti-Drug a certifies that n	Abuse Act o party to		
						X YES	□ №		
22.	List below al	l exhibits in numerica	l sequence and the item nu	mber of form requiring the	exhibit identified.				
EX	HIBIT NUMBER	ITEM NO. OF FORM	exhibit number	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. (OF FORM		
1 2		5c							
		10							
		1		i	i	1			

23. CERTIFICATION:

Title 47, Section 503).

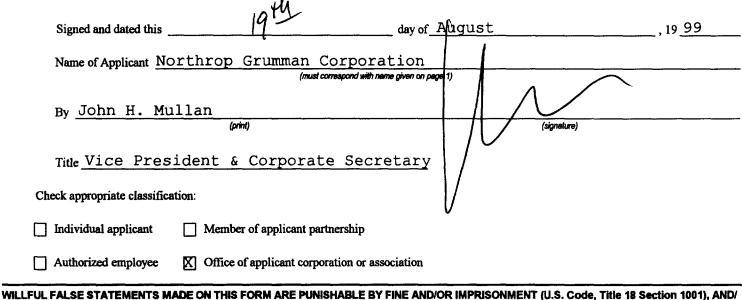
Attention: Read this certification carefully before signing this application.

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.



NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1), AND/OR FORFEITURE (U.S. Code,

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.