March 1996

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)				struction	DO NOT WRITE IN THIS BLOCK File No.			
Northrop Grumman Corporation				ı	D021-EX-PL-2000			
c/o Ve	rner	, Liipfe	rt, Attn:	John Kneue	DU-1	1 1 1 TO		
901 15	th S	treet, N	.W. Suite	700				
Washington DC 20005-2301					4,			
2(a). Appli	cation fo	r (check only on	e box)		2(b). For Modificati	on indicate below:	· · · · · · · · · · · · · · · · · · ·	
X New s	station	☐ Mo	dification of existing aut	thorization	File No.: Call Sign:			
						her addition or replaceme	ent to indicate whether	
ine ch	-	an addition of a	replacement of par - EMISSION -	ameters in the curre	nt authorization. POWER -		ATION -	
addit	ion or	replacement?	addition or	replacement?	addition or	replacement? ad	dition or replacement?	
		ration (see instru			IIT No.			
Frequency (o whether kHz or		POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)	
(A) 1030MH		(B)	(C)	(D)	(E)	(F)	(G)	
2.8-3.		2000W	230kW 90.2MW	Peak Peak	6M33M1D 1M25Q0N	Pulsed Pulsed	6330 1250	
		011700	70,22,11	1200.2		742004	1200	
				_			4	
		·	 				 	
			<u> </u>					
(B) Insert: (C) Insert: (D) Insert (E) List ea (F) Insert (1) th (2) m (3) fr (4) pr For core	maximum maximum "MEAN as appro- ae maxim aximum equency ulse dura mplex er	m R.F. output po m effective radia " or "PEAK" (So of emission sepa priate for the typ num speed of ke a audio modulating deviation of car ation and repetitinissions, describ	ower at the transminted power from the edefinitions in Parately for each free of modulation: ying in bauds; ang frequency, rier; ion rate.	itter terminals. Spec e antenna (If pulsed art 5).	emission, specify peak 2.201 of FCC Rules.))	
Band	lwidt	h determ	ined using	g Mason Zin	mermann App	roximation	FCC Form 442 - Page 2	

5(a).	Proposed location of transmit	ter and transmitting antenna (checl	k only one box	k to indicate type of operation	n):		
	X FIXED/BASE	MOBILE		BASE AND MOBILE			
.5(b).	If permanently located at a FI	XED location, give below:		5(c). If mobile, describe	the exact area of operation		
State	County	City or Town					
MD	Anne Arundel			4			
Numt	per and street (or other indication	on of location)		1			
See	Exhibit 2						
5(b)(1	1). Enter geographical coordinates ex	xact to the nearest second (see instruction 1	10)	5(c) (1) Enter geographical coordinates of the approximate center of mobile operation (see instruction 10)			
North L	atitude (DD-MM-SS)	West Longitude (DD-MM-SS)		North Latitude	West Longitude		
	0 f #	• •	M	0 1 11	0 1 11		
				<u> </u>			
5(d).		NAD 27		NAD 83			
6.	Is a directional antenna (other		X	NO			
	If "YES", give the following is						
	(a) Width of beam in degrees: (b) Orientation in horizontal p	at the half-power point		Orientation in vertical plane			
	(0) Orientation in norizontal p	nauc	(0)(orientation in vertical plane			
7.		d for fulfilling the requirement of a	government	contract with an agency of th	e		
	United States Government?	□ , tmo	K771 ·	NTO			
	If "VEQ" attach as EVLIDIT	No, a narrative sta	tement descri		agency and contact number		
8.	jurisdiction of a foreign govern	d for the exclusive purpose of develorment?	ioping radio e	equipment for export to be er	nployed by stations under the		
	J 22 11 22 12 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	☐ YES	[X] 1	NO			
	If "YES", attach as EXHIBIT	No, the following	information: F	Provide the contract number	and the name of the foreign		
	government concerned.						
9.	Is this authorization to be used	I for providing communications ess	sential to a res	search project? (The radio co	mmunication is not the objective of		
	the research project).	,					
		YES	X 1				
		No, a narrative sta	_	ling the following information	n:		
	•	e of the research project being cond mications facilities requested are n		ha racaarch project involved			
	· ·	ommunications facilities are inadeq	•	ne research project mvorved	•		
		-					
10.		, and 9, are "NO", attach as EXHII	BIT No. <u>3</u>	, a narrative state	ement describing in detail the		
	following:	research and experimentation prope	oned including	description of acuipment o	nd theory of energtion		
	(b) The specific objectives sou		osea menaam	g description of equipment a	nd meory of operation.		
			se of contribu	tion to the development, exte	ension, expansion, or utilization of		
	the radio art, or is along lin	ne not already investigated.					
11 (a). Give an estimate of the length of time that will be required to complete the program of experimentation propapplication: 2 Years				n proposed in this			
		ne length of time in months that the	authorization	requested in this application	n will be		
	required:						
		this application come within Section	on 1.1307 of t	he FCC Rules, such that it n	nay have a significant		
	environmental impact (see inst		eren .				
	1045/7000	YES	1 🔀		111		
	u ieo , suscn as Exhibiti	No an Environment	ai Assessmen	t as required by Section 1.13	911.		
13.	List below transmitting equipm	nent to be installed (if experimenta	al, so state):				
	MANUFACTURER	M	ODEL NUMBE		NO. OF UNITS		
	Northrop Grumman	n Corporation 6	13J537G	01 (Experiment	al) 3		

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 ant building, or	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", give the following (see instruction 9):						
	(a) Overall	(a) Overall height above ground to tip of antenna is meters.					
	(b) Elevation	on of ground at antenna	a site above mean sea level	is	_ meters.		
	(c) Distance	e to nearest aircraft lar	nding area is			kilometers.	
			existing man-made structur ma from aircraft and thereby		towers, etc.) which, in the ophazard of the antenna.	pinion of the a	pplicant,
	` '	bove ground for all sig			e including supporting buildir ing particulars of aviation obs		
16.	Applicant is	: (Check only one box)					
		NIAI - AG	SOCIATION D	ADTNEDGLID 🔽 /	CODDOD A TTOM		
		DUAL [] AS	SOCIATION PA	ARTNERSHIP X (CORPORATION		
	OTHER	(describe in space pro	vided below)				
17.	Is applicant	a foreign government o	or a representative of a forei	gn government?		☐ YES	X NO
18.							
	•					☐ YES	X NO
	If "YES", att	tach as EXHIBIT No.	, a stateme	ent giving call sign of licens	e or permit revoked and relat	e circumstance	es.
19.	Will applicat	nt be owner and operat	tor of the station?			X YES	□ NO
20.	pertaining to Steven	this application. F. Balaz, S		sing Specialist	if applicable) of person who control (410) 765-5626 (410) 765-6898	(voice)	_
21.				,	(110),00 0000	(1021)	
61 .	APPLICANT ANTI-DRUG ABUSE CERTIFICATION: 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 a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b).						
						X YES	□ NO
22.	List below al	l exhibits in numerica	l sequence and the item nur	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		4f					
2 3		5b 10				 	
4		15				<u> </u>	
5		15					
6		15				I	

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 _	5/	day of _January	, 19 2000
Name of Applicant No		n Corporation / A	
		(must correspond with name given on page 1)	
By John H. Mu	llan		
V 4	(print)	(signature)	
Title Vice Pres	ident & Corpo	rate Secretary	
Check appropriate classifica	tion:		
Individual applicant	☐ Member of applicar	nt partnership	
Authorized employee	☑ Office of applicant of a	corporation or association	

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

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,

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, gethering 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.