# 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)				ruction	DO NOT WRITE IN THIS BLOCK File No.			
Northrop Grumman Corporation c/o Verner, Liipfert, Attn: John Kneue				John Kneue	0208-EX-PL-2001			
		_	.W. Suite		<del>"</del>			
		•		700				
wasning	gton	DC 2000	5-2301					
2(a). Applica	ation for	(check only or	ne box)		2(b). For Modification	indicate below:		
X New sta					File No.: Call Sign:			
			Check the box besic replacement of para			r addition or replacement	to indicate whether	
FREQUE	NCY -		EMISSION -		POWER -	LOCATION -		
OTHER PA		·	·	ow or in attached EXHIB	IT No.	_ )		
	<u> </u>	tion (see msu	uction below)			110011111111111111111111111111111111111	NEOCOONDY BANDIAUDTU	
Frequency (sta whether kHz or N		POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)		
(A)		(B)	(C)	(D)	(E)	(F)	(G)	
2400 to		100mW	640mW	mean	914KF1DBT	500kHz shift	914	
2403 M	12				***************************************	Spread Spec 1 MHz hops	<del></del>	
		···	<del></del>					
(A) List eac	ch freque	ncv or frequer	ncy band separately.	(If more space is re	quired, attach as EXHIB	T No.		
(B) Insert n	naximun	R.F. output p	ower at the transmit	ter terminals. Speci				
			See definitions in Pa	· ·		, , ,		
	ch type o	f emission sep	arately for each freq	uency. (See Section	2.201 of FCC Rules.)			
(F) Insert a	s approp	riate for the ty	pe of modulation:					
(1) the	e maxim	um speed of k	eying in bauds;					
	(2) maximum audio modulating frequency;							
• •	(3) frequency deviation of carrier;							
, , -	4) pulse duration and repetition rate.							
	-		ibe in detail in the sp					
(G) Describ	e how the	ne necessary b	andwidth was detern	nined in space prov	ided below.			

5(a).	Proposed location of transmitt	ter and transmitting antenna (ch	eck only one box	to indicate type of operation	7).		
<i>3</i> ( <b>u</b> ).	FIXED/BASE	MOBILE	BASE AND MOBILE				
5(b).	If permanently located at a FI		5(c). If mobile, describe the exact area of operation				
State	County City or Town			See Exhibit 1	one chance and or operation		
State	County			See EVIITALE I			
Numb	er and street (or other indication	n of location)					
INGILIO	er and street (or other moreatic	in or location)					
				1			
5(b)(1	) 5-1		40)	5(c) (1) Enter geographical coo	rdinates of the approximate center of		
5(0)(1	Enter geographical coordinates ex	ract to the nearest second (see instruction	on io)	mobile operation (see instruction 10)			
North I :	atitude (DD-MM-SS)	West Longitude (DD-MM-SS)	######################################	North Latitude	West Longitude		
Monute	o 1 11	• i		0 1 11	0 1 11		
				\	<u> </u>		
5(d).	Datum (see instruction 10):	NAD 2	27	NAD 83			
6.	Is a directional antenna (other	than radar) used? YES	X	NO			
	If "YES", give the following i	·	[21]				
	(a) Width of beam in degrees						
	(b) Orientation in horizontal p		(c) (	Orientation in vertical plane			
	(b) Orientation in norizontar p	naic	(0)	Orientation in vertical plane			
7.	Is this authorization to be used	d for fulfilling the requirement of	of a government	contract with an agency of th	e		
••	United States Government?	• 101 1411111119 S 1110 1 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or w 80 . or		-		
		☐ YES	[X]	NO			
	If "YES", attach as EXHIBIT	No, a narrative	statement descri	bing the government project.	agency and contact number.		
8.		d for the exclusive purpose of de	eveloping radio e	equipment for export to be en	aployed by stations under the		
	jurisdiction of a foreign gover-		E-1	NO			
	TOWNSON A 1 PROTEINS	YES		NO	Calla Caratan		
		No, the followi	ing information: i	Provide the contract number	and the name of the foreign		
	government concerned.						
9.	Is this authorization to be used	for providing communications	essential to a re-	search project? (The radio co	mmunication is not the objective of		
•	the research project).	- to providing community		out on project (the twee of			
	,	☐ YES	X	NO			
	If "YES", attach as EXHIBIT	No, a narrative			n:		
		e of the research project being c	-	g			
	· · ·	unications facilities requested a		the research project involved			
	•	ommunications facilities are ina	•				
	(a) 1.1 billowing when substitute of	<b></b>					
10.	If all the answers to Items 7, 8	3, and 9, are "NO", attach as EX	KHIBIT No. 2	, a narrative state	ment describing in detail the		
	following:			•	· ·		
	(a) The complete program of	research and experimentation pr	roposed including	g description of equipment a	nd theory of operation.		
	(b) The specific objectives so	ught to be accomplished.					
	(c) How the program of exper	imentation has a reasonable pro	omise of contribu	ition to the development, exte	ension, expansion, or utilization of		
	the radio art, or is along li	ne not already investigated.					
11	(a). Give an estimate of the le	ngth of time that will be require	ed to complete the	e program of experimentation	n proposed in this		
	application: 3 Years	3	-		•		
	(b) If less than 2 years, give the	he length of time in months that	t the authorization	n requested in this application	n will be		
	required:						
12.	Would a Commission grant of	this application come within Se	ection 1.1307 of	the FCC Rules, such that it n	nay have a significant		
	environmental impact (see ins						
	pass (233 mil	T YES	X	NO			
	If "YES" attach as EXHIBIT		كا nental Assessmer	nt as required by Section 1.13	311.		
	If "YES", attach as EXHIBIT No an Environmental Assessment as required by Section 1.1311.						
13.	List below transmitting equip	ment to be installed (if experime	ental, so state):				
	MANUFACTURER	` '	MODEL NUMB	ER	NO. OF UNITS		
	Northrop Grumma	n Corporation	817R1910		19		
	Northrop Grumma	_	810R9010		67		
	circh oranina	502p02402011	0 = 01(0 0 1)	<del></del>	<b>.</b>		

14.	Is the equipr	nent listed in Item 13	52?	X YES 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							
	If "YES", gi								
	(a) Overall l								
	(b) Elevation								
	(c) Distance	to nearest aircraft lan	nding area is	41-74-4		kilometers.			
			existing man-made structure na from aircraft and thereby		towers, etc.) which, in the op hazard of the antenna.	pinion of the applicant.			
		bove ground for all sign			e including supporting building particulars of aviation obs				
16.	Applicant is:	(Check only one box)							
	☐ INDIVIDUAL ☐ ASSOCIATION ☐ PARTNERSHIP ☐ CORPORATION								
	U OTHER	(describe in space pro	ovided below)						
17.			or a representative of a forei			☐ YES ☒ 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?								
	If "YES", att	ach as EXHIBIT No.	, a stateme	ent giving call sign of licens	se or permit revoked and relat	YES NO NO ne circumstances.			
19.	Will applicant be owner and operator of the station?								
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.							
	Rod Fremd, RF Spectrum Management Specialist (410)765-5623 (voice) rodney w fremd@mail.northgrum.com (410)765-2889 (fax)								
21.	APPLICANT By checking denial of fed of 1988, 21 U	ANTI-DRUG ABUSE C "YES", the individual eral benefits, includin J.S.C. 862. A non-ind	ERTIFICATION:  1 applicant certifies that he of g FCC benefits, as a result of ividual applicant, e.g., corportions.	or she is eligible for this lice of a drug offense conviction oration, partnership or other	ense. This requires that he or pursuant to Section 5301 of a unincorporated association, aition of a "party" for these pu	she is not subject to a the Anti-Drug Abuse Act certifies that no party to			
						∑ YES ∑ NO			
22.	List below al	l exhibits in numerica	al sequence and the item nur	nber 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		5c							
2		10							
		I	l .	l	l .	1			

## 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

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 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.