Federal Communications Commission Washington, D.C. 20554

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

Rockwell 1 ATTN: H. 1745 Jeffe	ume and Post Office add ity, state, and ZIP Code International T. Blaker - S erson Davis Hi , Virginia 222	E. See Instruction No Corporation Suite 900 Ighway	DO NOT WRITE IN THIS BLOCK File No. 1120-EX- ML-84					
2.(a) Application for	or (check only one box)		2.(b) For Modification indicate below File No.: 0509-EX-PL-87 Call Sign: KA2XYL					
		د ماها د						
New Stati	·····	cation of existing at						
3. Application for	modification indicate ch	ange in (check all t	hat apply)					
	/ 📜 E	mission	Power	☐ Location				
፟ Other par	ticulars (describe below	or in attached Exhi	ibit No) Add frequencies power and ante		ed emissions,		
4. Particulars of (Operation (See instruction	ns below)						
Frequency (State Whether kHz or MHz)		POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)		
(A)	(B)	(C)	(D)	(E)	(F)	(G)		
935.8875MHz	60W	190 W	Mean	Voice	3000Hz	11K0F3E		
935.8875MHz	60W	190 W	Mean Mean	MSK - datā ATCS - GFSK	2400BPS 4800BPS	9K80F1D 13K0F1D		
935.8875MHz	60W				3000Hz	11K0F3E		
896.8875MHz	30W	95 W	Mean	Voice	2400BPS	9K80F1D		
896.8875MHz 896.8875MHz	30W 30W	95W 95W	Mean Mean	MSK - data ATCS - GFSK	4800BPS	13K0F1D		
230100701112			1.53.1					
	 				1			
(B) Insert maximu (C) Insert maximu (D) Insert "MEA (E) List each type (F) Insert as appr	um R.F. output power a um effective radiated po N" or "PEAK" (See d e of emission separately copriate for the type of r timum speed of keying im audio modulating fre	at the transmitter ter wer from the anteni efinitions in Part 5) for each frequency, modulation: in bauds; equency;	minals. Specify units na (If pulsed emissio	on specify peak power).).			
(2) maximu (3) frequen (4) pulse de For complex	cy deviation of carrier; uration and repetition ra emissions, describe in d the necessary bandwidt	letail in the space pr		ow.				

5(a).]	Proposed loca	tion of transmitte	r and transmittin	g antenna (C	Check only	one box)					
ĺ	. FIXED/B/	ASE	□ мог	BILE		🛚 BASE &	MOBILE				
(b) I	f permanently	located at a fixed	location, give l	below		(d) If mobil	e, describe	the exact are	a of operation		
State County City or Town I owa Linn Cedar Rapids			Within 50 miles radius of base station.								
		(or other indications Road, No									
(c) Geographical coordinates exact to the nearest second			(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications)								
North	Latitude	, ,	West Longitue	de	_	North Latitu			West Longit	ude	
	42	01 57	91	38	27	42	01	57	91	38	27
6. Is	s a directional	antenna (other th	an radar) used?			☐ Yes		XX No			
If	f "YES", give	e the following in	formation:								
(ъ	b) Orientation	eam in degrees at in horizontal plar in vertical plane	ie	oint							
7. Is	s this authoriz	ation to be used f	or fulfilling the	-	of a govern	ment contract	with an age	ncy of the Ui	nited States Go	vernment?	
If	f "Yes", attac	ch as EXHIBIT N			statement de		overnment p	oroject, agenc	y, and contact	number.	
								<u> </u>			
	s this authorized for a foreign go	ation to be used for vernment?	or the exclusive	purpose of	developing 1	adio equipmen Ves	t for export	to be employ	-	under the j	jurisdiction
		ch as EXHIBIT Not number and the									
	s this authorize esearch projec	ation to be used f t).	or providing con	mmunication	s essential to	a research pr	oject? (The	radio commu		the objecti	ve of the
(a (b	a) A description b) A showing	ch as EXHIBIT Non of the nature of that the communithat existing communithat existing communithat existing communithat existing communithat existing communithat existing community that existing community existing	f the research processions facilities	roject being requested a	conducted. re necessary	_	_				
10. If	f all the answe	ers to Items 7, 8,	and 9, are "No	", attach as	EXHIBIT I	No1,	a narrative	statement de	scribing in deta	ail the follo	wing:
(t	b) The specific c) How the pr	ete program of res c objectives sough rogram of experin or is along line no	nt to be accomplinentation has a r	ished. easonable pi	•		•	<u>.</u>	•		n of the
l		imate of the lengt 2 years, give the		=	-						2 years
	Would a Communication	nission grant of this impact?	nis application co	ome within S	Section 1.13	07 of the FCC	Rules, suc	h that it may			
If	f you answer	yes, submit an Ei	vironmental Ass	sessment req	quired by Se						

MANUFA	ACTURER	nstalled (if experiment		YPE					NO. OF UNITS
E. F. Joh	nson	TahoM	8900,	FCC	ın.	ΔΤΗΩΩ	-242_9	:900	1
E. F. Joh			8655,						3
			•					-	J
Above tra	Above transmitters to be added to present license.								
									
14. Is the equi	ipment listed in Item 13 capable	of station identificati	ion pursuan	n to Sec	tion 5.	152?			_
			:	☐ 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		J	⊠ No		
If "Yes",	give the following (See Instruc	etion 9):							
	t e describer de la companya de la c								
(a) Overal	I height above ground to tip of	antenna is	_ meters.						
(b) Elevati	ion of ground at antenna site ab	ove mean sea level is	i	meter	rs.				
(2) 2.2 (4.									
(c) Distance	ce to nearest aircraft landing are	ea is				kilo	meters.		
		_			_				
	ny natural formations of existing shield the antenna from aircra							in the opini	on of the applicant, would
tena te	are amenina irom aircia	and thereby minimi	are acre		ail	- o. uit all			
(e) Submit as EXHIBIT No, a vertical profile sketch of total structure including supporting building, if any, giving heights in meters									
	t as EXHIBIT No.								
above									
above	ground for all significant featur is (check only one box)	res. Clearly indicate e	xisting port	tion, not	ting pa	rticulars of	aviation ob	estruction lig	
above 16. Applicant □ Indiv	ground for all significant featur is (check only one box)		xisting port		ting pa	rticulars of	aviation ob		
above 16. Applicant □ Indiv	ground for all significant featur is (check only one box)	res. Clearly indicate e	xisting port	tion, not	ting pa	rticulars of	aviation ob	estruction lig	
above 16. Applicant ☐ Indiv	ground for all significant featur is (check only one box)	Association	xisting port	□ Parti	ting pa	rticulars of	aviation ob	estruction lig	
above 16. Applicant ☐ Indiv	ground for all significant featur is (check only one box) vidual or (describe below)	Association	xisting port	□ Parti	ting pa	rticulars of	aviation ob	estruction lig	
above 16. Applicant Indiv	ground for all significant featur is (check only one box) vidual or (describe below) nt a foreign government or a re	Association	ign governr	□ Parti ment? □ Yes	nership	rticulars of	aviation ob X Cor X No	struction lig	hting already available.
16. Applicant Indiv Othe 17. Is applican 18. Has applic	ground for all significant featur is (check only one box) vidual or (describe below)	Association	ign governmention license	Parti	nership	rticulars of	Aviation ob 【○ Cor 【○ No d any appli	struction lig	hting already available.
16. Applicant Indiv Othe 17. Is applicant 18. Has applicated denied by	ground for all significant featur is (check only one box) vidual or (describe below) In a foreign government or a research or any party to this applica	Association presentative of a foreition had any FCC sta	ign governmention license	Parti	nership	rticulars of	Aviation ob Cor No d any appli	poration lig	ermit, license or renewal
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above 16. Applicant Indiv Othe 17. Is applicant 18. Has applicant 18. Has applicant denied by If "Yes", 19. Will applicant 20. Give name H. T. Bla (703) 553. 21. List below EXHIBITS AND I	ground for all significant feature is (check only one box) vidual or (describe below) Int a foreign government or a research or any party to this application this Commission? attach as EXHIBIT No. cant be owner and operator of set, title, and telephone number (ker, Manager, Stan-6687	Association Presentative of a foreintion had any FCC station, a statement givestation? Ginclude area code) of and and Ce	ign governmention licenses	ment? Yes or perri	mit revicense of	ocked or ha	Aviation ob Cor No d any appli XX No evoked and No s pertaining	poration lig	ermit, license or renewal mstances.
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22. CERTIFICATION

ATTENTION: Read this certification carefully before signing this application.

THE APPLICANT CERTIFIES THAT:

- (a) Copies of the FCC Rules 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, com	plete and correct to the b	est 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	25th	day of	January	, 19 _89.				
	Name of Applicant	Rockwell Internati	onal Co	rporation					
			d with name given on page 1)						
	By H. T. Bla	ker	287 B. Colum						
	(print)			(signature)					
	Title Manager,	ck Appropriate Classification:							
	1	TATEMENTS MADE ON THIS BY FINE AND IMPRISONMEN			☐ Individual Applicant				
	CODE, TITLE 18, S	ECTION 1001.	Member of Applicant Partnership						

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 Section 0.459 of 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. 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.

☐ Office of Applicant Corporation

or Association

Authorized Employee