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)

A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code. See Instruction No. 4)				DO NOT WRITE IN THIS BLOCK				
				File No. 2079 -	EX-PC-9)		
Shell Communications, Inc.					. •			
P. O. Box 20329 Houston, Texas 77225-0329]				
11005 COII, 16x05 77223-0329				Ì				
2.(a) Application for	or (check only one box		. 2.(b) For Modification indicate below					
X New Stati	·	fication of existing a	File No.: Call Sign:					
	modification indicate of							
☐ Frequency		Emission	☐ Location					
Other part	iculars (describe belov	w or in attached Frh	1					
l owner part	iculars (describe belov	r or in unucleu Zan	<u></u>	,				
}								
4. Particulars of C	peration (See instruction	ions below)						
Frequency (State Whether kHz or	POWER				MODULATING	NECESSARY BANDWIDTH		
MHz) (A)	(B)	(C)	(D)	EMISSION (E)	SIGNAL (F)	(kHz) (G)		
TX1636.5-16	45 40W	4KW	MEAN	F3	300-3000 Hz	25 KHz		
RX1535-1543		ļ						
TX1636.5-16	45 40W	4KW	PEAK	B-1 PHASE CODE	4800 BAUD	4.3 KHz		
RX1535-1543			72710	D 1 THASE GODE	TOOU DAGE	7.5 1(12		
	(A) List each frequency or frequency band separately. (If more space is required, attach as Exhibit No).							
	m R.F. output power m effective radiated p			n specify peak power).				
(D) Insert "MEAI	N" or "PEAK" (See	definitions in Part 5)).					
	of emission separately opriate for the type of		. (See Section 2.201	rcc Rules.)		ļ		
	(1) the maximum speed of keying in bauds; (2) maximum audio modulating frequency;							
(3) frequency deviation of carrier;								
(4) pulse duration and repetition rate. For complex emissions, describe in detail in the space provided below.								
(G) Describe how the necessary bandwidth was determined in space provided below.								
F3 B. W. = 2 (PEAK FREQUENCY DEVIATION) + 1 KHz.								
PEAK FREQUENCY DEVIATION = 12 KHz.								
BPSK B. W. = THIS IS THE 1/2 POWER BANDWIDTH OF THE 4800 B.P.S. B1-PHASE SIGNAL.								
]								

5(a). Proposed location of transmitter and transmitting antenna (Check only one box)										
☐ FIXED/BASE 🖾 MOBILE			☐ BASE & MOBILE							
(b) If permanently	located at a fixed	locatio	on, give below	(d) If mobile, d	(d) If mobile, describe the exact area of operation					
State Number and street	County City or Town		Continental United States							
(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 Longitude		North Latitude	,	,	West Longitude	; ,	,,	
			·	29	30	00	95	27	00	
6. Is a directional antenna (other than radar) used?				X Yes		□ No				
If "YES", give	e the following inf	ormatio								
(a) Width of beam in degrees at the half-power point										
	·		ling the requirement of a govern	ment contract with	an agency	of the Un	ited States Gover	nment?		
			☐ Yes	🖄 No						
If "Yes", attac	ch as EXHIBIT No)	, a narrative statement de	scribing the govern	nment proje	et, agency	y, and contact nur	mber.		
1		r the e	xclusive purpose of developing a		export to		ed by stations un	der the juris	sdiction	
of a foreign go	veriment:			☐ Yes		🔯 No				
			, the following information							
(a) The contrac	t number and the	name o	of the foreign government concer	neu.						
O Is this outhorization to be used for avoiding communications assential to a paragraph marine? (The radio communication in get the chicative of the										
9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project).										
If "Ves" attac	h as FXHIRIT N		, a narrative statement pr		ng informs					
			search project being conducted.	oviding the following	ing inioinia	uon.				
(b) A showing that the communications facilities requested are necessary for the research project involved.										
(c) A showing	(c) A showing that existing communications facilities are inadequate.									
10. If all the answe	ers to Items 7, 8,	and 9,	are "No", attach as EXHIBIT 1	No, a na	irrative state	ement des	cribing in detail t	the following	g:	
			nd experimentation proposed inc	luding description o	of equipmen	nt and the	ory of operation.			
(b) The specific objectives sought to be accomplished.(c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.										
SEE EXHIBIT #1										
11. (a) Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application.										
(b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required SEE EXHIBIT #2										
12. Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?										
, C 162 170										
If you answer yes, submit an Environmental Assessment required by Section 1.1311.										

	transmitting equipment to be i	nstalled (if experin	nental, so state): TYPE		NO. OF UNITS			
	OX ADVANCED PRODUC STEMS COMPANY	CTS	MX2400T + INMARSAT STAND	ARD "A"	1			
NON-EX	PERIMENTAL							
INMARS	AT TERMINAL TO BE	USED ON LA	ND FOR DEMONSTRATION	ON AND INS	TRUCTIONAL PURPOSES.			
14. Is the equ	ipment listed in Item 13 capable	of station identifi	cation pursuant to Section 5.152?	,				
			☐ Yes	Ď 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",	give the following (See Instruc	tion 9):	☐ Yes	Й №				
(a) Overal	(a) Overall height above ground to tip of antenna is meters.							
(b) Elevation of ground at antenna site above mean sea level is meters.								
(c) Distance	(c) Distance to nearest aircraft landing area is kilometers.							
(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.								
(e) Submit as EXHIBIT No, a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.								
16. Applicant	is (check only one bax)							
☐ Indiv		Association	☐ Partnership	🖒 Cor	poration			
☐ Othe	t (describe below)							
17. Is applicant a foreign government or a representative of a foreign government?								
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? Yes Yes No If "Yes", attach as EXHIBIT No, a statement giving call sign of license or permit revoked and relate circumstances.								
19. Will applicant be owner and operator of station? ☐ Yes ☐ No								
20. Give name, title, and telephone number (include area code) of person who can best handle inquiries pertaining to this application.								
David G. Fake, Communications, Engineer, (713) 795-1222								
21. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.								
	EM NO. OF FORM							
Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form			
1	10							
2	11							

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; (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. June _____ day of ____ Signed and dated this ____ Name of Applicant Shell Communications, Inc. (correspond with name given on page 1) Lee Roy F. Gaspard, Jr. Title Vice President

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S. CODE, TITLE 18, SECTION 1001.

Check Appropriate Classification:

☐ Individual Applicant

☐ Member of Applicant Partnership

Office of Applicant Corporation or Association

Authorized Employee

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.