



P A R K A I R E L E C T R O N I C S

20 March, 2000

FAA Spectrum Engineering Division
800 Independence Avenue SW
Washington,
DC 20591

Ref: FCC Application C8LB6350 731 Confirmation Number EA97106

Dear Sirs,

Please be advised that we are making an application to the Federal Communications Commission to obtain an Equipment Authorisation grant for Park Air Electronics VHF transmitter type T6 model number B6350.

The equipment provides upto 50W RF output power in the 118 – 136.975 MHz band employing A3E (AM) modulation. A summary of the equipment's performance is attached.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'Allan Horsfield'.

Allan Horsfield
Principal Engineer
EMC and Approvals

FAA Notification of FCC Type Acceptance Application for PAE B6350.

General

FCC Number	C8LB6350
Manufacturer	Park Air Electronics Ltd. England.
Type	T6T VHF transmitter
Model Number	B6350
RF Output Power	50 Watts
Antenna port	50R N-type connector
Frequency range	118 MHz to 136.975 MHz.
Method of tuning	Frequency selected by front panel control and LCD display.
Channelling capability	25 kHz and 8.33kHz.
Emission bandwidth	Within FCC limits see attached report summary
Emission type	6K0A3EJN
Emission/harmonics	See attached report summary

Description

Park Air Electronics (PAE) T6T is a VHF multi-mode air-traffic control transmitter compatible with analogue (AM) and digital (D8PSK) modulation modes. Current models are supplied programmed for AM voice operation in the frequency range 118 to 136.975 MHz using 25 kHz or 8.33 kHz channel spacing. Future software upgrades will allow D8PSK operation.

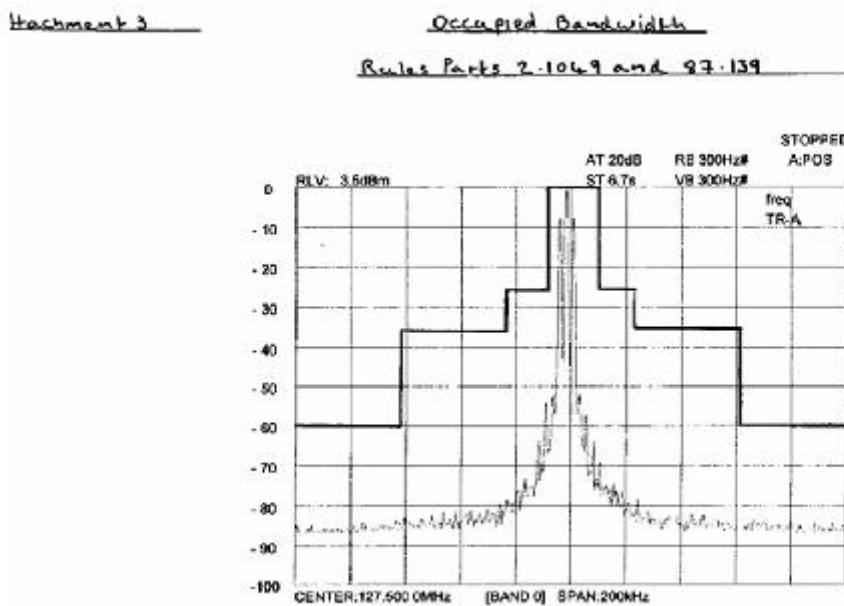
The transmitter produces a 50-watt carrier output that can be reduced, in 1 watt steps, to 5 watts. The output power, and the majority of operational settings, can be selected at the front panel, using the virtual front panel (VFP) or through a compatible control and data system such as the PAE multi-access remote control (MARC) system. A multi-channel feature allows up to 100 frequency channels to be stored and recalled by channel number.

The transmitter is designed to be fitted in an industrial 19 inch (483 mm) equipment rack. Operation is from either a standard ac mains supply, or from a low voltage dc supply. When both input supplies are connected, the dc supply acts as a back-up if the mains supply fails. Comprehensive continuous and interruptive Built-In Tests (BIT) provide confidence of the transmitter's serviceability.

PAE B6350 VHF transmitter emission performance summary:

All results taken from report number CTMS 2000/1221 produced by Cambridge Test and Measurement Services* and submitted to the FCC supporting our application for Grant of Equipment Authorisation.

Occupied Bandwidth - 47 CFR 2.1049 (1)



Spurious emissions at antenna terminals - 47 CFR 2.1051

Results in accordance with Part 2.1051 and 87.139 Emission Limits

Note: Emissions 20dB below limit are not required to be listed

Carrier Frequency (Fc) : 127.5 MHz

		Absolute Level	Level (relative to RF Power 50W) dB w.r.t limit of 43+10 log power	
Frequency (MHz)	Identity	dBm	dBc	Remarks
		limit - 13	limit - 60	
255.00	2Fc	-48dBm	-95dBc	
382.50	3FC	-43dBm	-90dBc	
637.50	4Fc	-65dBm	-112dBc	All greater than 20dB within Specification Limit.

* FCC Registration Number 93395

Field Strength of Spurious radiation - 47 CFR 2.1053

Carrier Frequency (Fc) : 127.5 MHz

		Absolute Level	Level (relative to RF Power 50W) dB w.r.t limit of 43+10 log power	
Frequency (MHz)	<i>Identity</i>	dBm	dBc	<u>Remarks</u>
225.00	2Fc	-64	-111	
510.00	4Fc	-68	-116	
				All greater than 20dB within Specification Limit.