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**Re: STZSDP600UW Certification:
Spectrum Efficiency 47 CFR Part 90.203(j) Compliance.**

To Whom It May Concern:

This is to certify that the requirements of 47 CFR Part 90.203(j)(4) and (5) spectrum efficiency are met by the STZSDP600UW portable radio as demonstrated by the tests conducted on the sample radio provided.

The tests show that the 4FSK data rate is in accordance with ETSI TS 102 361-1, that is 9600 bits per second in a 12.5 kHz bandwidth to satisfy the data rate requirement of 4800 bits per second per 6.25 kHz of channel bandwidth (7K60FXD emissions). Additionally the STZSDP600UW uses the AMBE+2 half-rate vocoder to compress 60 ms of normal speech into a 27.5 ms, 264 bit burst. These bursts are sent in alternate 30 ms TDMA slots and so comply with the equivalence of one voice channel per 6.25 kHz bandwidth (7K60FXE emission).

Additionally the radio also meets the requirement of one voice channel per 12.5kHz of channel bandwidth for analogue speech (11k0F3E emission).

Thank you for your attention to this matter.

Yours sincerely,

Simoco Australasia Pty Ltd

Robert Stowell



Senior Engineer