

Modulating Signal Description

PS1/RSD/AA Description of PS1 Radar Signal STA File No 0515-EX-ST-2006

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Signal Description

The PS1 radar signal is a carrier pulse modulated with nominally rectangular pulses.

The pulse width and pulse repetition frequency have fixed values. Within each pulse the carrier frequency is swept at a nominally constant rate between two frequency limits. The sweep direction can be either increasing frequency with time or decreasing frequency with time. The upper and lower frequency sweep limits can be selected from 3 possible values.

The frequency sweep is symmetrical about a centre frequency of 9.5 GHz.

