

From: Stephen Frasier

To: Anthony Serafini

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Subject:

Experiment 0229-EX-PL-2003

Message:

Correspondence on 0229-EX-PL-2003

1. Necessary bandwidth on 9000-10000 MHz band is 5 MHz. That is, each 10 microsecond pulse occupies 5 MHz bandwidth (linear frequency modulation chirp pulses). However, the center frequency of the pulses is variable between 9000-10000 MHz. A frequency allocation of 10% bandwidth is requested to enable use of a frequency-scanned antenna for electronic scanning of the radar beam in elevation. Specific frequency limits are flexible provided they are in the vicinity of 10 GHz.
2. Necessary bandwidth on 9380-9440 MHz band is 2 MHz (first null bandwidth of the pulse spectrum). An allocation between 9380-9440 MHz is requested to accomodate drift in center frequency by the magnetron source.

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