

The Purpose of this license is the demonstration of equipment in support of Border Security Operations.

For the Thales BOR-A550: (Frequency range requested is 9.2 – 10 GHz)

- Modulation type: **M** (BOR-A is transmitting phase-coded pulses, i.e. PPM, where optimum codes of either +180° or -180° phased subpulses are forming the transmit pulse)
- Nature of modulating signal: **2** (digital with modulation)
- Information type: **X**
- the pulses comprise of either 1.067 µs or 0.267 µs duration subpulses arranged in codelengths of either 1, 5, 13 or 29, i.e. 8 different transmit pulse widths between 0.267 and 30.93µs
- the pulses are transmitted in coherent pulse trains of lengths 64, 128 or 256 at PRFs of either 2858 Hz, 3024 Hz, 3189 Hz, or 3348 Hz (where either a single PRF can be selected or a PRF-4-stagger can be employed)
- **BOR-A550:** the nominal 3dB bandwidth for the shortest subpulse codes (40 m, 0.267 µs) is 4 MHz

GO12: (Frequency range requested is 16.38 – 16.82 GHz)

- Modulation type: **F** (linear FM)
- Nature of modulating signal: **2** (digital with modulation)
- Information type: **X**
- the pulses are linear FM with a compressed pulsewidth of 0.067 µs. The expanded pulsewidths are either the basic subpulse of 0.067 µs, 0.533 µs (CR8), 1.6 µs (CR24), 5.333 µs (CR80) or 10.67 µs (CR160).
- the pulses are transmitted in coherent pulse trains of lengths 128 or 256 at PRFs of either 4468Hz, 4709 Hz, 4840 Hz, 4978 Hz or 5280Hz (when a single PRF is selected, it will be the middle one; it is also possible to select PRF-3-stagger or PRF-4-stagger where in the former case the middle and the 2 outer PRFs are employed whereas in the latter cases the two outer pairs each are taken)
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- **GO12:** the nominal 3dB bandwidth, given the 0.067 µs subpulse width is 15 MHz