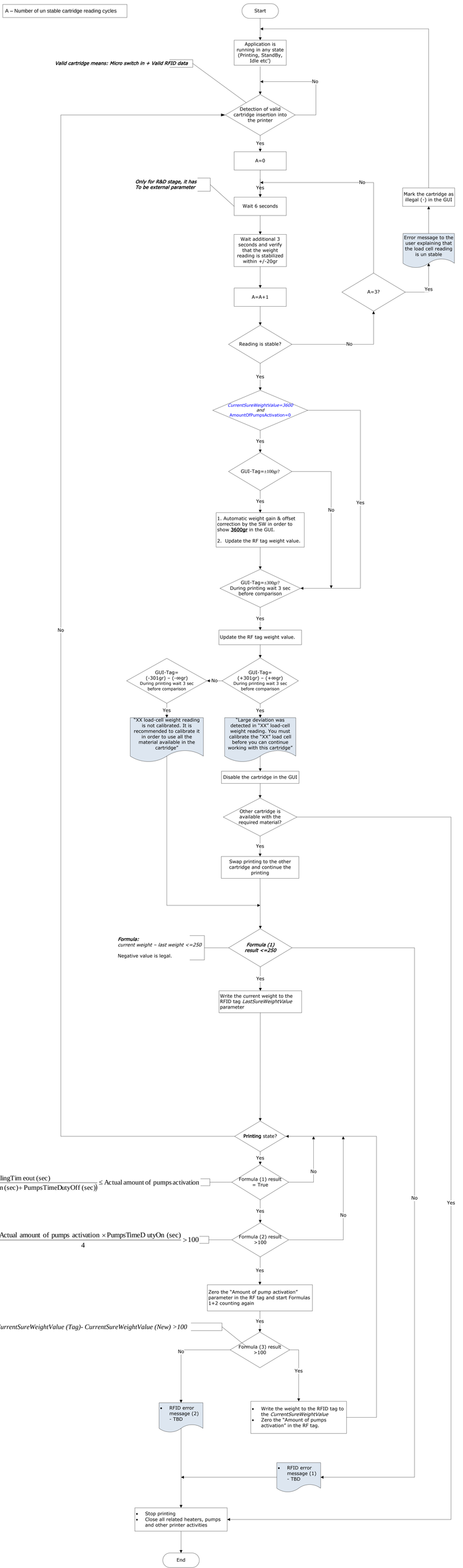
Cartridge refills protection flow chart



$$\frac{\text{FillingTimeout (sec)}}{(\text{PumpsTimeDutyOn (sec)} + \text{PumpsTimeDutyOff (sec)})} \leq \text{Actual amount of pumps activation}$$

$$\frac{1.5 \times \text{Actual amount of pumps activation} \times \text{PumpsTimeDutyOn (sec)}}{4} > 100$$