**STOP**

**LOOP CONTINES UNTIL POWER IS WITHDRAWN FROM THE SYSTEM**

**ACCESS GRANTED**

**GREEN LIGHT ON**

**CHECKS FOR MOVEMENT AND POTENTIALLY DANGEROUS MATERIAL**

**START**

**SYSTEM ACTIVATED**

No movement

+ No Metal

Movement + Metal

No Movement + Metal

**ACCESS DENIED**

**BUZZER ON**

**ACCESS DENIED**

**RED LIGHT AND BUZZER ON**

Movement + No Meta` ``l