



Cow drinks:

start\_tm4 = 0

start\_tm5 = 1

start\_tm6 = 0

start\_tm7 = 0

offboard\_leds = 13'b 111 111 111 1100 COW Green led

Seven-seg = 32'h 100200ff H2O

Cow - happy:

start\_tm4 = 0

start\_tm5 = 0

start\_tm6 = 1

start\_tm7 = 0

offboard\_leds = 13'b 111 111 111 1000 COW no GYR led

Seven-seg = 32'h 0c000001 COOL



cow - potty:

~~tm~~ start - tm4 = 0

start - tm5 = 0

start - tm6 = 0

start - tm7 = 1

offboard - leds = 13'b 111 1111 1111 1010 cow yellow led

seven - seg = 32'h 180e0eff PEE

cow - thirst:

start - tm4 = 1

start - tm5 = 0

start - tm6 = 0

start - tm7 = 0

offboard - leds = 13'b 111 1111 1111 1001 cow red led

seven - seg = 13'h 09011d09 91U9

cow - dead

start - tm4 = 0

start - tm5 = 0

start - tm6 = 0

start - tm7 = 0

offboard - leds = 13'b 0000 0000 0000 0000 <sup>no  
cow  
no  
led</sup>

seven - seg = 32'h 0b0e0e0f BEEF