

The MI12B RAW Skid, located in the MI-12B enclosure, it's a closed loop system used to cool the Horn. The controls are located in a red chassis along the east wall of the MI-12 service building.

Which means we need it to run beam to MiniBooNE.

```
PD S53 DIGITAL STATUS
S53 DIGITAL STATUS                               ♦Pgm_Tools♦ AGG CONTRL
parm *SA♦ X-A/D X=TIME Y=M:B4WST M:B4WRT M B4WRP M:B4WSP *RESET
*save ... Eng-U I= 0 I= 80 80 0 0 *ON
One+ AUTO F= 3600 F= 110 110 100 250 *OFF
.global .linac..booster ...mi... ..tev... ..sy... .p-bar... .misc... collider

E:MBRAW1 MiniBooNE RAW status ♦See Alarm Log♦
♦More Info♦                                     ♦Ctrl-Menu♦
0 0
0 0
0 0
0 0
1 0
1 0
Return Temp OK 0 0 Local .
Supply Temp OK 0 0 Alarm is
RAW Flow BAD 1 0 ALARMING
LOW Flow OK 0 0 Speech is
0 0 BYPASSED
0 0 Edit
Make Up Req NO 1 0
Surge Tank Lo ON 0 0
Surge Tank Hi OFF 1 0
RAW Pump 2 OFF 1 0
RAW Pump 1 OFF 1 0

Messages
```

Flow bad,
not good



If the RAW skid trips how do you turn it back on? First you need to find the RAW controller. 2 hints, it's red and located in the MI-12 Service Building.



Enter through here.



Take a right after entering through the door.

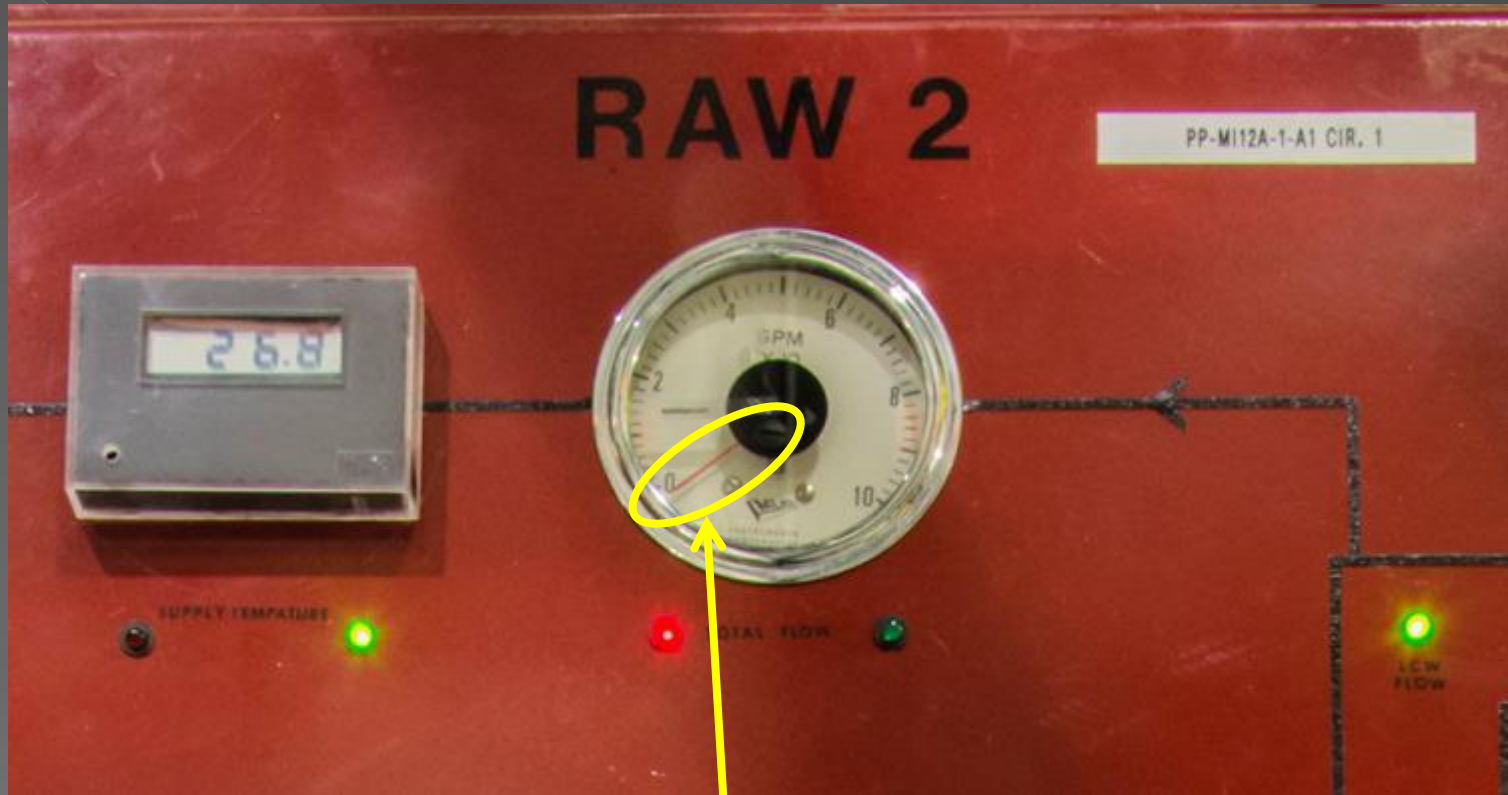
There it is, you can see it! Well almost.



Here it is.



The flow gauge shows no flow, not good

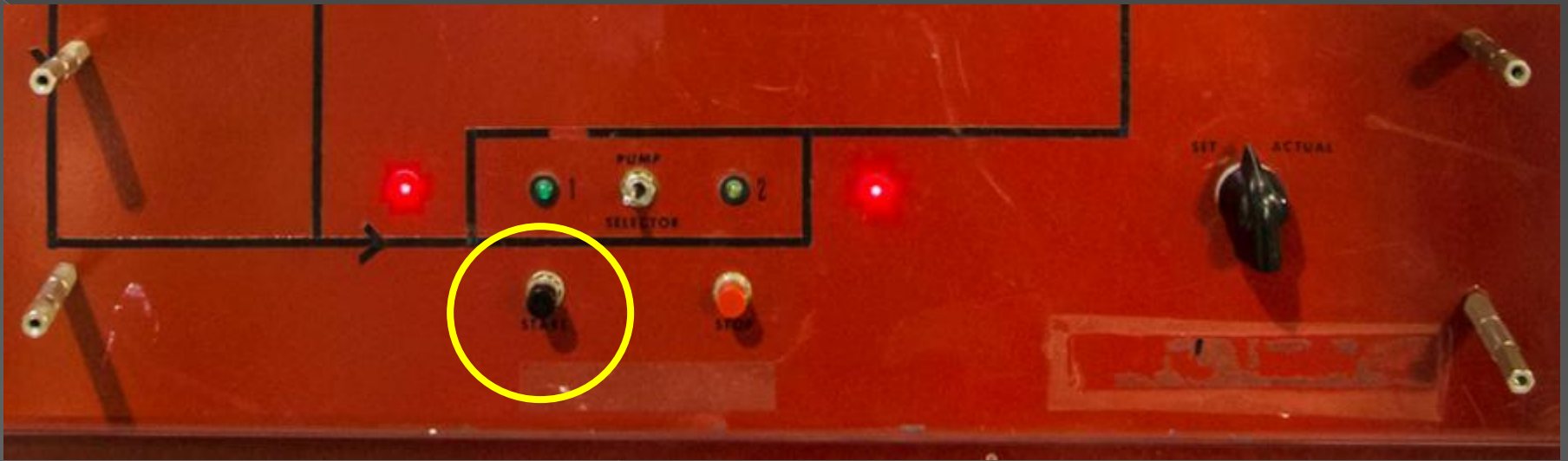


The gauge show no flow

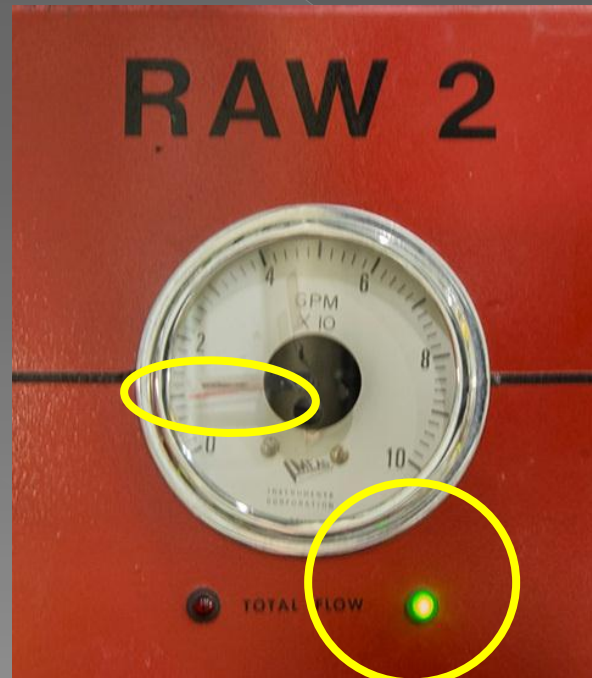
But, before we start the system up, here's some important things to know.



To turn on the RAW system, you will need to find the pump controller.



Here's the controller. Press the black button until the Total Flow Led by the Flow guage turns green.



It's on!

PD S53 DIGITAL STATUS

S53 DIGITAL STATUS ♦Pgm_Tools♦ AGG CONTRL
PARAM* *SA♦ X-A/D X=TIME Y=E:UQ02 ,E:UHT03 ,E:UVT04 ,I LI522A *RESET
*save BL-- Eng-U I= 0 I=-10 , -10 , -10 , 0 *ON
r_EA AUTO F= 1 F= 10 , 10 , 10 , 4000 *OFF
.global. .linac.. .booster ...mi... ..tev... ..sy... .p-bar... .misc... collider

E:MBRAW1 MiniBooNE RAW status ♦See Alarm Log♦
♦More Info♦

		0	0< .
		0	0
		0	0
		0	0
		1	0
		1	0	Local .
Return Temp	OK	0	0	Alarm is
Supply Temp	OK	0	0	ACTIVE-OK
RAW Flow	OK	0	0	Speech is
LOW Flow	OK	0	0	BYPASSED
		0	0	Edit
Make Up Req	NO	1	0	
Surge Tank Lo	ON	0	0	
Surge Tank Hi	OFF	1	0	
RAW Pump 2	OFF	1	0	
RAW Pump 1	ON	0	0	

♦Ctrl-Menu♦

RAW Flow ok,
that's good.

Messages



Another point about RAW systems

We do not fill the expansion tank without the RSO's permission. All we can do is turn them on. If it's in alarm for Make-up, you will need to contact the RSO and follow his instructions, usually call someone in from the Fluids group.

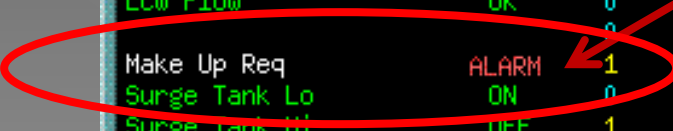
```
PD S53 DIGITAL STATUS
S53 DIGITAL STATUS
PARAM* *SA* X-A/D X=TIME Y=E:UQ02 ,E:UHT03 ,E:UVT04 ,I LI522A *RESET
*save BL-- Eng-U I= 0 I=-10 , -10 , -10 , 0 *ON
r_EA AUTO F= 1 F= 10 , 10 , 10 , 4000 *OFF
.global .linac..booster ...mi... ..tev... ..sy... .p-bar... .misc... collider

E:MBRAW1 MiniBooNE RAW status
*More Info*

0
0
0
0
1
1
Return Temp OK 0
Supply Temp OK 0
RAW Flow OK 0
LCW Flow OK 0
Make Up Req ALARM 1
Surge Tank Lo ON 0
Surge Tank HI OFF 1
RAW Pump 2 OFF 1
RAW Pump 1 ON 0

Messages
```

Make-up is in alarm.



da End, stay cool