

Shifter Log Guide

Open a web browser , navigate to
'<https://micewww.pp.rl.ac.uk/elog/Shift+summary/>' and log in.

Click on 'new'. This will open up a basic template for the shift summary. Fill out details of the shift:

- date and time of shift
- Who is on duty for this shift and who else is present in the control room.
- Target laser levels at the beginning of the shift.
- ISIS status

Under 'history' record any significant events in the control room, in particular the details of all runs. When recording details of the runs the following information should be included:

- Time run started
- Run Number
- Beamline configuration – either the name of an existing configuration or in the format (PA: value; q1: value; q2: value; q3: value; d1: value; ds: value; d2: value; q4: value; q5: value; q6: value; q7: value; q8: value; q9: value)
- Number of spills
- Data Status – unless there is a known error with the data then it should be recorded as OK
- Any other relevant information regarding the run including anything that has an impact on the data taken, such as faults/errors, changes to detector settings, etc.

Other useful information during the run can be recorded under 'comments'.

As the shift summary can be edited after submission and updated, as soon as any changes are made to the shift summary it should be submitted. This is to inform those remotely monitoring the progress of the experiment of what is happening in the control room. To catalogue incidents that either need further attention or would be useful for other shifters to know use the elog.

To make a more permanent copy of the shift summary select all the text in the shift summary and copy and paste it into a new elog entry.

Attached is an example of a good shift summary:

Shift summary: date 23/06/15- Slot
22:00 - 06:00
=====

SOC: J Nugent
Others: P. Hanlett, A. Lui(shadow), D.
Bowring(shadow), E. Overton, M.
Uchida

Shifters: A. Dick and C. Pidcott
BLOC: C Pidcott
MOM: V Blackmore

Laser light Levels for Target at
beginning of Shift

A - 50685
B - 50582
Index - 50817

ISIS status:

22:00 ISIS is running OK

Target Coil Temps at 23:15

Top - 25.3

6 - 30.2

12 - 29.2

18 - 32.5

Bottom - 24.7

History:

22:00 - Running Q4,5,6,7,8&9

Magnets at 400A to view
temperatures

22:15 - Q4 earth Fault and Q5 Water
flow failure - Q7,8&9 didn't have time
to level off.

22:30 - Controlled access to check -
No water leaks and Power supplies
checked.

23:21 - Henry says go.

23:25 - Tracking timing studies under
direction of Ed & Melissa are not to
go ahead.

23:30 - Run 7103 - 190 MeV Pion
Beam - 50000 Spills

Magnet settings

Q1 - 48

Q2 - 87.6

Q3 - 53.6

D1 - 167.48

D2 - 83.66

Q4 - 145.8

Q5 - 195.5

Q6 - 129.6

Q7 - 125

Q8 - 189.0

Q9 - 161.27

23:45 - OnRec keeps crashing -

needs to be restarted every 5 mins.

0:05 - We were asked to call Melissa
at 7000 TOF2 Triggers. Also querying
OnRec with her.

00:55 - Melissa here - Pierrick asked
to test some run control work he's

been doing - Melissa agrees to stop
the

current run halfway and let him do
some testing and resume these
settings on a later run. We will wait
until we

have 25000 TOF2 triggers.

01:30 Stopped Run 7092 for Pierricks
testing - will resume

01:57 - Resumed 190MeV run - 7104
- 25000 TOF2 Triggers

02:10 - Tried switching back to a
stable Ver. of OnRec - it is still
crashing after a few spills.

OnRec Debug page doesn't state
where the log files are. Melissa and
Pierrick are trying to fix.

03:43 - Run 7104 complete - 5003
spills and 25054 TOF2 Triggers

03:50 - ISIS is down (Not our fault)

03:51 - ISIS is back up - happened
outside run - so data issues.

Magnet settings

Q1 - 68

Q2 - 124.3

Q3 - 76.1

D1 - 241.7

D2 - 117.8

Q4 - 209.0

Q5 - 280.3

Q6 - 185.9

Q7 - 190.3

Q8 - 288.0

Q9 - 246.1

03:55 Magnets on new settings for a
couple of minutes and Chiller temp
hit 25 deg - instructions are to ramp
off

and call MOM.

Called MOM and we are to let chiller
temp reduce to about 24.5 deg and
settle for 15 mins. Then continue
with 190
MeV beam.

04:26 - Run 7106 - Continue 190 MeV
run for remainder of shift

Magnet settings -

Q1 - 48
Q2 - 87.6
Q3 - 53.6
D1 - 167.48
D2 - 83.66
Q4 - 145.8
Q5 - 195.5
Q6 - 129.6
Q7 - 125
Q8 - 189.0
Q9 - 161.27

05:55 - Run 7106 Finished.
05:55 - Shutting down BL and opening hall.

Target Coil Temps at 23:15

Top - 25.1
6 - 30.1
12 - 29.1
18 - 41.2
Bottom - 24.6

Final Actuation count - 695392

Final Laser levels

A - 50085
B - 50895
Index - 49962

Comments:

Note Polarity Monitor every 30 mins

23:30 - All Positive
00:00 - All Positive
00:30 - All Positive
01:00 - All Positive
01:30 - All Positive
02:00 - All Positive
02:30 - All Positive

Note Water Temp Differentials every 30 mins

23:30 - All Green
D2 - 0.5
Q4 - 2.0
Q5 - 1.5
Q6 - 3.5
Q7 - 1.5

Q8 - 3.5
Q9 - 2.5
Chiller Temp - 24.2

00:00
D2 - 1.5
Q4 - 2.5
Q5 - 2.5
Q6 - 4.5
Q7 - 2.5
Q8 - 4.5
Q9 - 3.5
Chiller Temp - 24.0

00:30
D2 - 2.0
Q4 - 3.5
Q5 - 3.0
Q6 - 4.5
Q7 - 2.0
Q8 - 4.5
Q9 - 3.0
Chiller Temp - 24.4

01:00
D2 - 1.5
Q4 - 2.5
Q5 - 2.0
Q6 - 4.0
Q7 - 2.0
Q8 - 4.0
Q9 - 2.5
Chiller Temp - 23.8

01:30
D2 - 2.5
Q4 - 3.5
Q5 - 3.0
Q6 - 5.0
Q7 - 2.5
Q8 - 5.0
Q9 - 3.5
Chiller Temp - 23.1

02:00
D2 - 1.0
Q4 - 2.5
Q5 - 2.0
Q6 - 4.0
Q7 - 1.5
Q8 - 4.0
Q9 - 2.5
Chiller Temp - 24.0

02:30
D2 - 1.5
Q4 - 2.5
Q5 - 2.0
Q6 - 4.0
Q7 - 2.0
Q8 - 4.0
Q9 - 2.5
Chiller Temp - 24.2

03:00
D2 - 2.0
Q4 - 2.5
Q5 - 2.0
Q6 - 4.5
Q7 - 2.0
Q8 - 4.0
Q9 - 3.0
Chiller Temp - 24.0

03:30
D2 - 1.5
Q4 - 2.5
Q5 - 2.0
Q6 - 4.5
Q7 - 2.0
Q8 - 3.5
Q9 - 3.0
Chiller Temp - 24.0

03:55
D2 - 2
Q4 - 4.5
Q5 - 3.5
Q6 - 7.5
Q7 - 3.5
Q8 - 8.5
Q9 - 5.5
Chiller Temp - 25.00

04:30
D2 - 1.5
Q4 - 2.5
Q5 - 2.0
Q6 - 4.0

Q7 - 2.0
Q8 - 4.0
Q9 - 2.5
Chiller Temp - 23.3

05:00
D2 - 1.5
Q4 - 2.5
Q5 - 2.0
Q6 - 4.5
Q7 - 2.0
Q8 - 4.5
Q9 - 3.0
Chiller Temp - 23.7

05:30
D2 - 1.0
Q4 - 2.5
Q5 - 2.0
Q6 - 4.0
Q7 - 1.5
Q8 - 4.0
Q9 - 2.5
Chiller Temp - 23.7

06:00
D2 - 1.5
Q4 - 2.0
Q5 - 2.0
Q6 - 3.5
Q7 - 1.5
Q8 - 3.5
Q9 - 2.0
Chiller Temp - 24.1

Beam Monitor on TV - Every 5th or so pulse the Beam loss is much lower than the others ~ a tenth of the other values.

ISIS integrated Losses are not being recorded in the run status. - This was an intentional change by Pierrick.