



MISSISSIPPI STATE
UNIVERSITY™

Run Group F

RC weekly report

Carlos Ayerbe-Gayoso
Weekly Hall B Meeting
17 August 2020

The week in a glimpse

- In general productive week.
- Weather is probably the main agent of trouble
- Working days, running on Deuterium.
- Friday to Saturday, gas rotation $D_2 \rightarrow H_2 \rightarrow \text{Empty} \rightarrow {}^4\text{He} \rightarrow D_2$
- Keep the counting house in restricted work conditions due to MEDCON-5:
 - Social distance
 - Remote meetings
 - Low personnel presence in the Counting House
- Daily RC report to the BONuS collaboration with copy to the PDL (Stepan) and Group Leader (Marco).

Week summary

★ Monday, 10 August 2020 (Stephan B.)

- No major issues
- Running 200nA@10.4 GeV on deuterium

★ Tuesday, 11 August 2020 (Stephan B.)

- Same
- Fine HV tuning of the RTPC
- Planned control access.
- No beam the whole Day shift, announced to be available ~20:00. It was for a short period of time, harp scans and tuning was done, but beam very unstable.
 - tagger degauss after harp scan failed, completed after second attempt

Week summary

★ Wednesday, 12 August 2020

- Beam back ~02:00 -> beam prepared for experiment ~04: 00
- Roller coaster trip with the beam
 - Beam stuck in the injector
 - SRF vacuum pump
 - Weather
- Changed the trigger configuration file in order to include the FT

★ Thursday, 13 August 2020

- Torus alarm issue solved
 - Changed permit pressure limit from 1.10 to to 1.01 atm
- Clasmon updated to accomodate thr FT plots
- Beam stopped to reboot the RTPC (not a normal procedure)

Week summary

★ Friday, 14 August 2020

- ~10:30 beam down → “Rf/Magnets mysterious trip”
- Opportunity to start the gas target dance
 - Deuterium → Hydrogen @250nA
- Beam back ~14:30, tuning beam for experiments.

★ Saturday, 15 August 2020

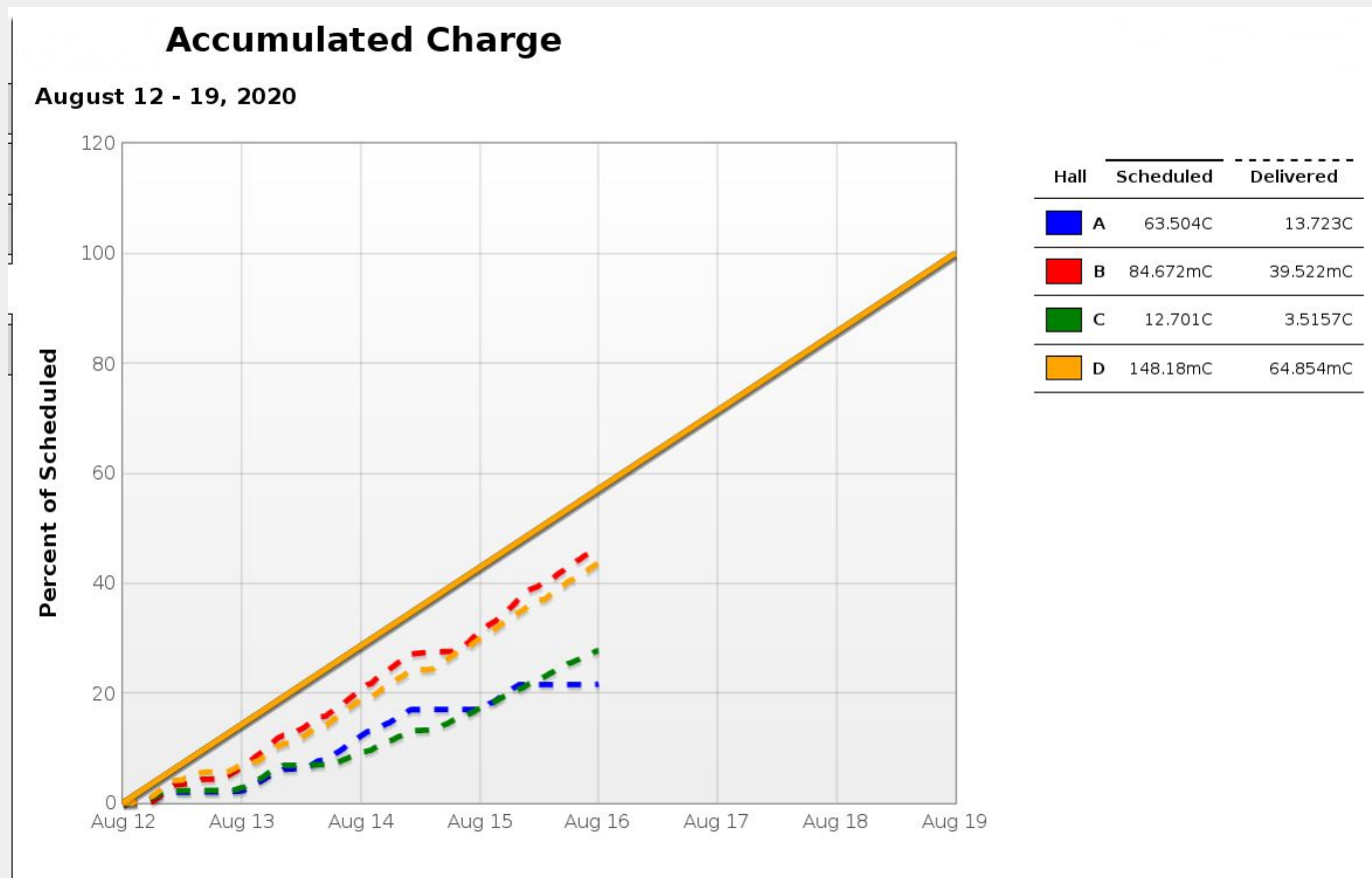
- Continuation of the gas target dance
 - Hydrogen → empty target @300 then 350 nA
 - Empty target → Helium @200nA
 - Helium → Deuterium @200nA
- No big incidents, besides the everyday alarms fast solved by shifter or experts (average time to solve ~5min)

Week summary

★ Sunday 16 August 2020

- Owl shift was quite good
- Beam down due to CHL trip, it was expected to be down for ~4h
-

From the accelerator web



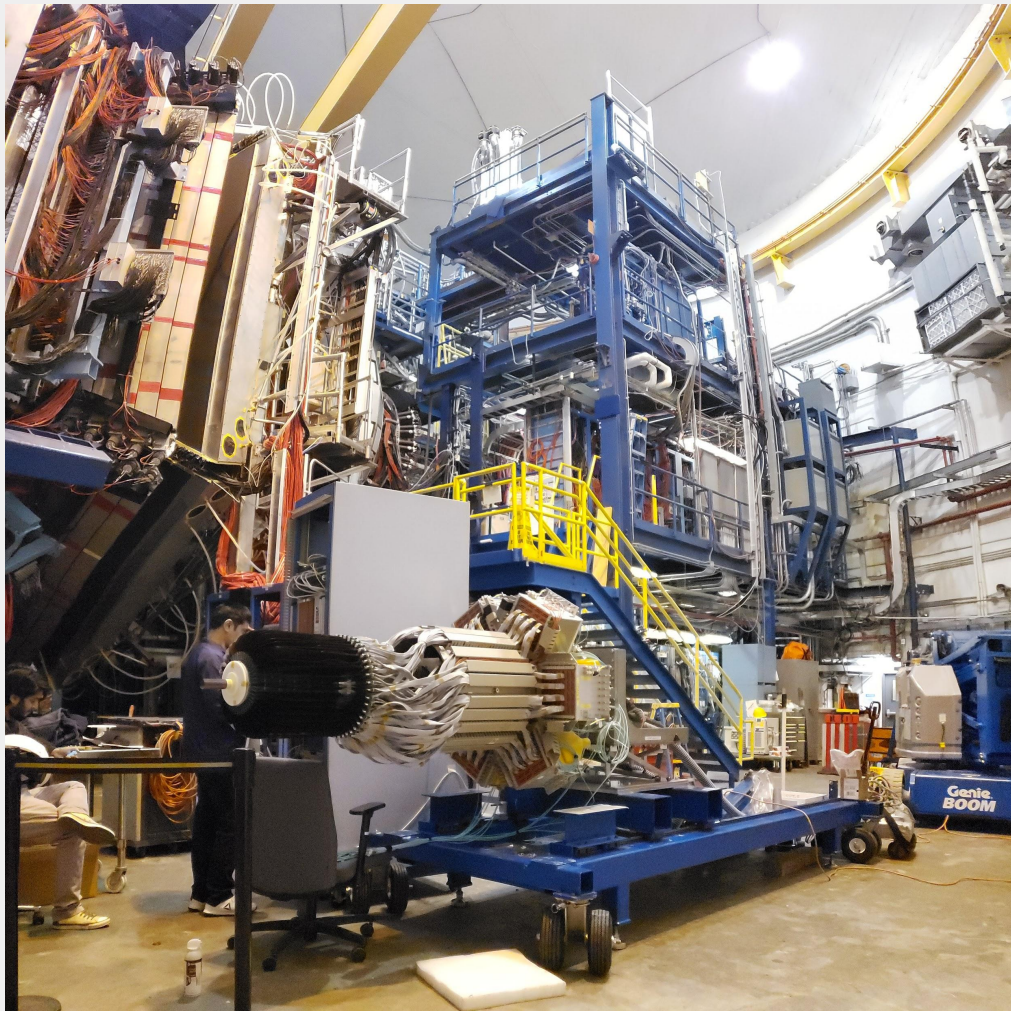
From the accelerator web

Hall Availability

August 9 - 16, 2020 (07:00 - 07:00)

Hall	Accelerator Beam Time (Hours)						Experiment Beam Time (Hours)		
	ABU	BANU	BNA	ACC	OFF	UNKNOWN	ER	PCC	UED
A	44.4	15.9	92.9	14.7	0.0	0.0	151.9	1.8	14.3
B	60.3	10.8	87.8	9.2	0.0	0.0	156.0	4.4	7.5
C	70.4	9.8	75.6	12.2	0.0	0.0	159.5	1.5	7.0
D	72.3	10.4	73.1	12.2	0.0	0.0	153.0	0.6	14.4

Hall	Availability (Hours)				
	PD Scheduled	Actual Program Time (T)	Accelerator Availability (AA)	Experiment Availability (EA)	Simultaneous Availability (SA)
A	158.0	168.0	39.4%	91.5%	29.0%
B	158.0	168.0	44.7%	95.5%	38.0%
C	158.0	168.0	51.5%	95.9%	45.2%
D	158.0	168.0	53.1%	91.4%	46.4%



Thank you to the
experts and Shift
takers for their job
and patience with
this RC