

Weekly Reports - GIF⁺⁺ Users Meeting

Meeting : 12.09.2024 09h

Present :Stefania J., Margaret, Katerina K.,Luca Q.,Giuseppe P., Paolo M.

Announcements from GIF⁺⁺ Coordination

- NP04 main users of the H4 beam line September 04th. Access to GIF++ bunker to avoid only possible in case of main issue with the SPS. Moreover concerning access on Wednesdays, still to avoid since from now on till W34 (21/08) no MD is foreseen.

NP04 run will be extended by two weeks

We will have priority for access

One or two days before the official start of our beam slot it will be possible to start installation, for instance removing beam pipe

Feedback and suggestions are welcome

DRD1 plans to use GOLIATH during the incoming test beam period

2 - 3 shifts, few hours each

please comment

The process to request beam time for 2025 is about to start

Shall we clone the request for 2024 ?

- GIF++ website not working. Trying to find a solution. Still ongoing!

14 - 16 October irradiation of SiPM for EIC, source ON most of the time

Installation (short) 14

Deinstallation 16 morning

YETS 2024/25

Starting to plan for the end of the year shutdown

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Proposal:

- Stop of main gas supplies on December 3rd (in case we can postpone of one week) --> no impact considering the previous years shutdown.
- Restart the main gas supplies on February 3rd

	Milestones	Weeks	Date
T_0	Notification of the Contract to the Contractor (Letter of Intent)		30 April 2024
	On site meeting with identification of the lines that shall be dismantled following the Technical Specifications §3.1 phase 1 and check of the routing proposal § 3.4	$T_0 + 1$	22 May 2024
	Delivery of Documentation specified in §5 of the Technical Specification (Annex I): <ul style="list-style-type: none"> • Quality Plan ; • Plan de Prévention (PdP) ; • ATEX certificates ; • All detailed operating modes • Detailed Design File 	$T_0 + 4$	28 June 2024
T_1	On site meeting with check of the previous documentation and routing		3 July 2024
	Documentation updated according to remark made during the next meeting	$T_1 + 3$	30 July 2024
T_2	Acceptance by CERN of the above-mentioned documentation and Contractor personnel training		19 August 2024
T_3	VIC on site meeting		13 November 2024
T_4	Start of the dismantling (Phases 3,4,5)		3 December 2024
	Start of the installation §3.4 – Technical Specification (Annex I)	T_4+1	9 December 2024
	Test Carried Out at CERN §4.3.2 – Technical Specification (X-ray welding control – Annex I)	T_4+3	6 January 2025
	Installation of the gas cabinet §3.2 and §3.3 – Technical Specification (Annex I)	T_4+4	13 January 2025
	Test Carried Out at CERN §4.3.2 – Technical Specification (Validation of the pressure test and leak continuity measurement) – Annex I	T_4+5	20 January 2025
T_5	Commissioning of the GIF++ mixing area 1B79, §4.2.3 – Technical Specification (Annex I)		3 February 2025
T_6	Commissioning of the mixing area R-C47, §4.2.3 – Technical Specification (Annex I)		3 March 2025

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Please keep the door of the preparation area closed
MATTERMOST channel (gif-users) available
if there aren't objections, I will add all users to the team
Room 892 1/B09 booked
Resume in-person meeting (NOT MANDATORY)

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Muon Beam Requests 2024 : 11 setups

ATLAS – sMPI 3 x 2 Weeks
ATLAS – MPI RPC 3 x 2 Weeks
ATLAS – LEGACY 3 x 2 Weeks
ATLAS – PHASE 2 3 x 2 Weeks
ATLAS NSW MM (2x) 1 x 2 Weeks
ATLAS - sTGC parasitic user for the whole beam period
CMS – CSC (3x) 3 x 2 Weeks
CMS – GEM 2 x 3 Weeks
CMS – RPC (2x) 4 x 2 Weeks
EP-DT2 3 x 2 Weeks
RPC ECOgas 3 x 2 Weeks

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Safety:

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New Safety Form (ISD) available https://ep-th-safety.web.cern.ch/GIF_ISD

Safety courses:

- First Aid - SST Initial (workplace first aider)
 - ATEX Habilitation - Level 1 <https://lms.cern.ch/ekp/servlet/ekp?CID=EKP000040032&TX=FORMAT1&BACKTOCATALOG=Y&DECORATEPAGE=N>
 - F-GAS https://lms.cern.ch/ekp/servlet/FORMAT1?CID=EKP000039939&LANGUAGE_TAG=en
 - ...
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Weekly Reports :

Please update before or during the meeting !

ATLAS-RPC Module 0: (none)

- No report

ATLAS-RPC-Legacy: (Giulio, Sinem)

- We need a HV scan for 2-2.5h for different ABS factors(Source off, 3.3, 10, 33)

ATLAS-RPC Conditioning: (Alessandro, Eric, Mohamed)

- The conditioning of the second BI pack started, and it needs 1 week under radiation and at the end of the week an HV scan with different ABS factors.
- In each 2 weeks there will be 1 trolley which includes 24-25 gas gaps.
- Each trolley will stay in the bunker for 1 week.

ATLAS-MM: (Valerio)

- Restarted irradiation
- SM1 detector back in the bunker including one sTGC chamber, and placed downstream next to CSC setup
- Will move in standard position in September probably

ATLAS-sTGC: (Margaret)

- HV now ON for the STG quad, still only flushing CO2
- Would ideally switch to npentane mixture now
- sTGC chamber in the MM trolley and services connected, IMPACT and ISD done already

CMS-CSC: (Katerina, Victor)

- irradiation to be resumed on 18.07
- moving ME1/1 closer to the source - next Wednesday (to be confirmed by Valerio)

CMS-HGCAL: (Sasha, Elena)

continuing to stay in the same position at least till next week

ATLAS-MPI: (Elena, Giorgia, Francesco, Markus)

- Request few hours of stop for the R134a and i-butane next week in order to install a new gas

system at GIF++ for the test beam;

- Request of open the floor in the downstream area in order to install 3 HV cables (after the test beam)
- Installation of a new small set-up in the downstream area to perform the RPC aging test (after the test beam)

EP-DT2: (Mattia, Stefania)

29.08.2024

- taller trolley installed at the end of the bunker
- old trolley removed from the bunker -> currently in the preparation area

Requests:

- 3h Source Off in the afternoon/Friday if possible

Ecogas: (Luca)

29/08/2024

System status

- system flushing with nitrogen during summer
- we will decide our plan today at the internal meeting
- what is the status of the HFO bottle order?

Access requests

- None

ATLAS-TGC: (Giannis)

- for the moment, data taking to be resumed in September/October

CMS-RPC: (João, Dayron)

- Longevity plan ongoing
- Water tank of RPC (CMS+ATLAS) partially filled two weeks ago, but demineralized water is over. I'm taking care and we will finish with the procedure next week.
- Weekly access on Wednesday (at least) morning fits well our needs!
- Thanks for the help with Zubayda and sorry about the rush!

****- AOB** **

- Installation new gas supply lines from 909
- Gas supply presentation

<https://indico.cern.ch/event/1360529/attachments/2790291/4865861/Gas%20User's%20meeting%2030-Jan-2024.pdf>

- DRD1 CM

<https://indico.cern.ch/event/1360282/timetable/>

- Recuperation systems for fluorinated gas at the CERN LHC Experiments

<https://indico.cern.ch/event/1386095/>