

Weekly Reports - GIF⁺⁺⁺ Users Meeting

Meeting : 12.12.2024 09h

Present :Margaret L., Valerio D.,Sinem, Victor P.

Announcements from GIF⁺⁺⁺ Coordinator

- Access system maintenance (DONE on Friday Dec.06th)
- Source OFF for annual stop yesterday Wednesday Dec. 11th
- Tomorrow Friday Dec. 13th @14h30 --> IDS system test. No access till 15h00
- GIF++ website not working. Trying to find a solution. Still ongoing!
- Start of NA physics: 14.04.2025 (EA 19.03.2025)
- Next meeting will be communicated by email at the beginning of next year. It depends also how the maintenance is going.

YETS 2024/25

- Test N/S (Diesel generators):
08.01.2025 from 06:00am to 06:10am
- No access to EHN1:
AUG test 15.01.2025 - 17.01.2025

EHN1 DSO test 24.03.2025 - 25.03.2025

Starting to plan for the end of the year shutdown

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Proposal:

- Monday Dec.2nd @ 2.30pm - Source OFF
 - starting to prepare all the setups for the gas stop foreseen on Tuesday Dec. 3rd
 - move already the setups, that are not able to run without the gas supplies (most of the setups except ATL-MM & ATL-sTGC), in the maintenance position.
- Tuesday Dec.3rd morning
 - Stop of all the main gas supplies. During that day also the neutral gases will be stopped for ~3h and then restarted without any stop at least till February 3rd 2025 (end of the work on our gas lines)
- Monday Dec. 09th move down the ATL-MM hanging trolley and install it close to the wall (maintenance position)
- Friday Dec.13th
 - last day with source ON (ATL-MM & ATL-sTGC will try to leave with their common setups to BB5 during that week)

- 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's no 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)

- Irradiation stopped for this year
- Hanging trolley lowered last friday and flushing in parking position
- MMG+sTGC trolley disconnected and out of the bunker to be delivered to BB5 tomorrow 13th
- Trolley will stay in BB5 during the shutdown and will come back in January

ATLAS-sTGC: (Margaret)

- Trolley with STG and MMG is out, TREC was done, and will be moved to BB5 tomorrow
- Gas is OFF
- Will be back end of January
 - Will want to do some re-cabling then to support a second chamber

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)

05.12.2024

- The system is off - to be flushed with N₂.

Requests:

- Short Access in the following weeks.

Ecogas: (Luca)

14/11/2024

System status

- System flushing with ECO2 (35/60 HFO-CO2)
- Irradiation ongoing
- Ok to use neutral gases (N₂) from air mixer during the period with no gases (40% RH from our humidifier)

Access requests

- None

ATLAS-TGC: (Giannis)

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

CMS-RPC: (João, Dayron)

- Longevity plan resumed
- Nothing to report and no requests

****- 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/>