

# Weekly Reports - GIF<sup>+++</sup> Users Meeting

Meeting : 05.12.2024 09h

Present : Margaret L., Valerio D., Stefania J., Victor P.

## Announcements from GIF<sup>+++</sup> Coordinator

- Weekly access moved to Tuesday (03/12) --> yesterday source OFF for an official visit
- Start of NA physics: 14.04.2025 (EA 19.03.2025)
- Access system maintenance tomorrow afternoon --> source OFF and no access
  - short access to move down the ATL-MM setup from the ceiling
- Source OFF for annual stop on Tuesday 10th
- GIF++ website not working. Trying to find a solution. Still ongoing!

## YETS 2024/25

- 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"> <li>• Quality Plan ;</li> <li>• Plan de Prévention (PdP) ;</li> <li>• ATEX certificates ;</li> <li>• All detailed operating modes</li> <li>• Detailed Design File</li> </ul>	$T_0 + 4$	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		<del>13 November 2024</del>
$T_4$	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](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](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)**

- Continuing irradiation with setups in standard position
- Empty gad banks marked in the corridor and ready to be transported outside in the coming weeks
- Hanging trolley lowering planned for 6th December!
- Planning the movement of trolley to BB5 in December after the stop of the operations, 11-12 December
- Trolley will stay in BB5 during the shutdown and will come back in January

### **ATLAS-sTGC: (Margaret)**

- Flushing npentane, HV on  
[jira for noting values \(https://its.cern.ch/jira/browse/GASSYSTEMS-277\)](https://its.cern.ch/jira/browse/GASSYSTEMS-277)
- Plan to turn OFF HV and switch to CO2 next Tuesday morning - no more need for irradiator on our side after this
- Will need to flush CO2 a day or so after stop of npentane before transport
- Plan for TREC/transport+handling from Wednesday 11

### **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 N<sub>2</sub>.

#### **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 (N<sub>2</sub>) 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/>