# **GIF** completion status

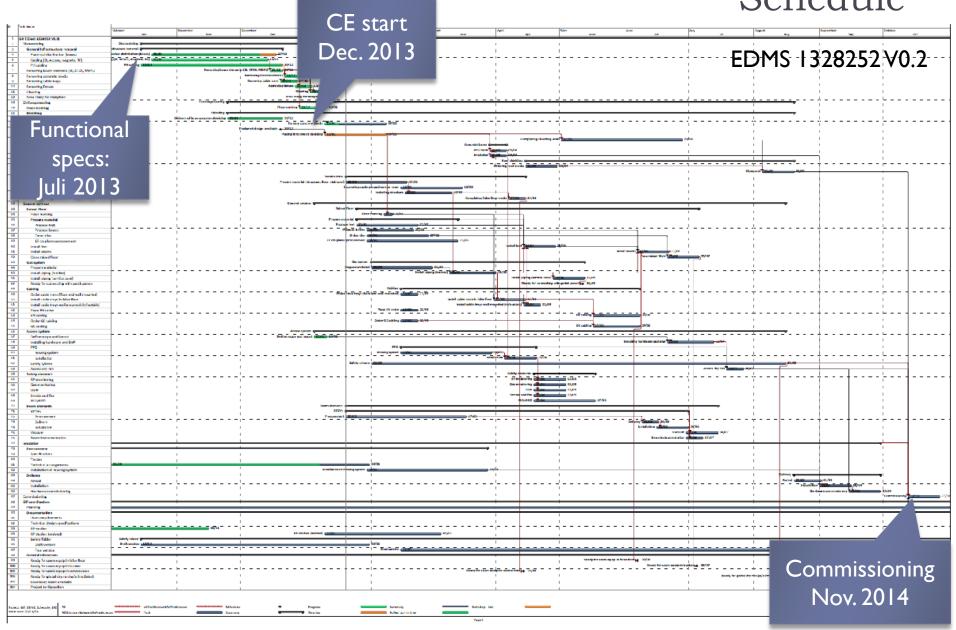
Adrian Fabich, EN-MEF-LE on behalf of the GIF project team GIF users meeting, 14th January 2015







### Schedule



### Services available

Zones of bunker, preparation and service area

### Gas distribution

Gas supply – see Ernesto's talk

### Electricity

Gas racks gradually connected with installation

### Safety systems

- Access safety system
- RP monitoring
- Gas and fire detection

14/1/2015







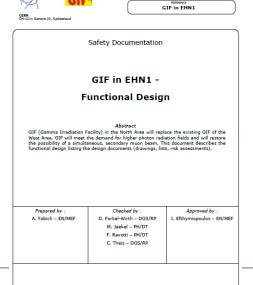


## Project documentation

- Documentation: <a href="http://cern.ch/gifpp">http://cern.ch/gifpp</a>
  - ► EDMS: <a href="https://edms.cern.ch/nav/P:CERN-0000088840:V0">https://edms.cern.ch/nav/P:CERN-0000088840:V0</a>
    - ▶ Specifications, drawings, technical notes ...
  - Meeting (notes):
    <a href="https://indico.cern.ch/categoryDisplay.py?categld=5229">https://indico.cern.ch/categoryDisplay.py?categld=5229</a>



- ▶ EDMS 1335474
- Tripartite authorisation
  - Received 9. Oct. 2014



1335474 1.1 RELEASED







### GIF radiation zone

#### The irradiation zone hosting the irradiator

- is a controlled area (PPE154).
- inside a supervised area (EHNI).

#### Film badge mandatory

- No risk of activation due to low intensities of secondary beam
- Presence of high intensity photon source requires additional precautions due to the prompt radiation levels:
  - Extended shielding
  - Entrance chicanes
  - Dedicated monitoring

Modifications to the shielding concept are only to be authorised by the TSO.







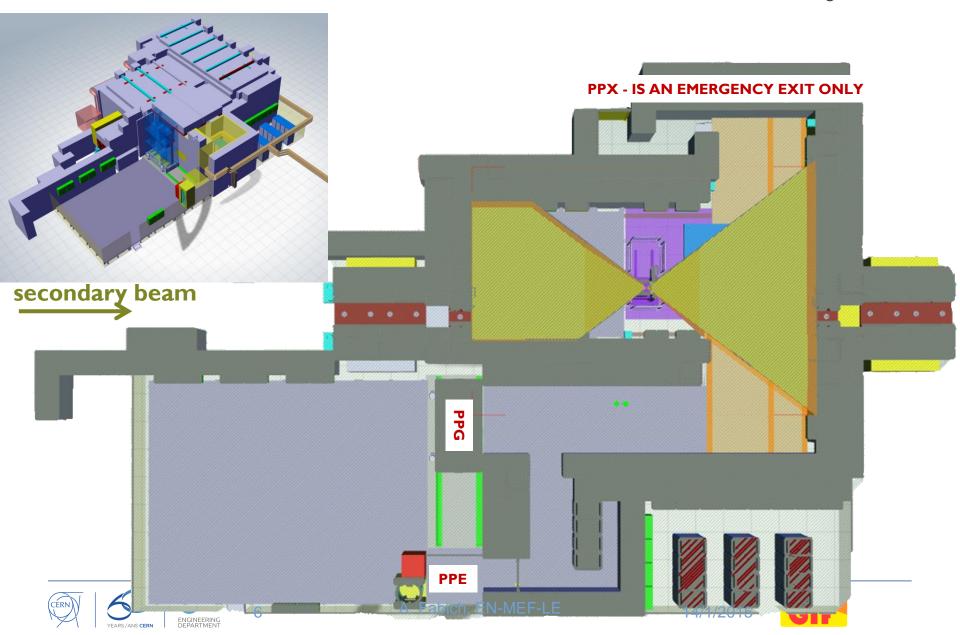






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## GIF++ layout



## Operational safety procedures

### Standard procedures of EHN1

#### **Access**

- Similar to any other beam zone
  - Possible for anyone with film badge
  - Based on EHN1 standard equipment and layout
  - Installation works in beam areas requires PPE (helmet, safety shoes)

#### Patrol procedure

- ▶ H4 beam line patrol right training authorisation required
- 2 patrol buttons

#### Manual veto

- Procedural safety from the CCC
- GIF source is included in the safety chain of zone H4C

N.B.: An intrusion (forcing the door) to an active beam zone causes a primary interlock stopping the SPS.



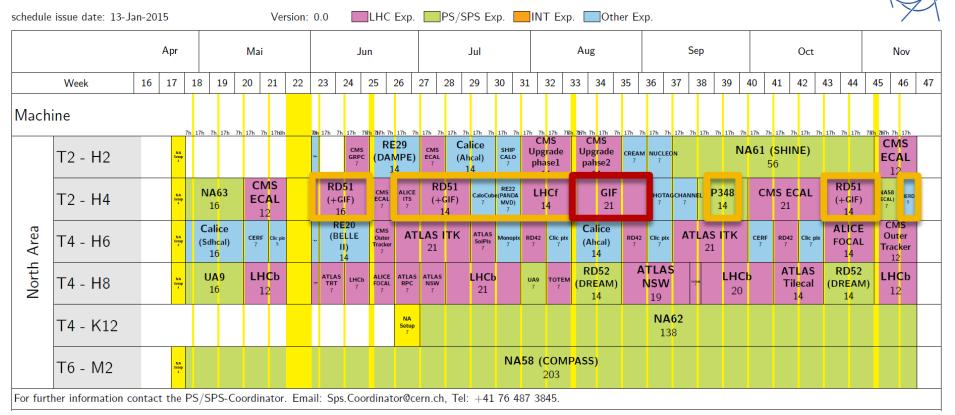




## Preliminary

▶ 13 parasitic and 3 dedicated weeks out of 29 weeks of total proton beam time in 2015

### SPS user schedule for 2015









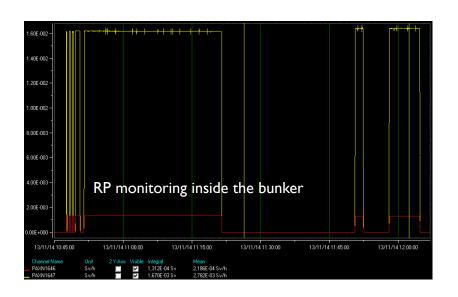
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## GIF is operational

#### Upgrade installations during 2015

- Installation of full fletched gas detection system
- Supplying demin. water and compressed air to the bunker
- Installation of XTDVs (mobile dumps)
  - Increasing the flexibility in swapping with other users









PH-DT Detector Technologies













