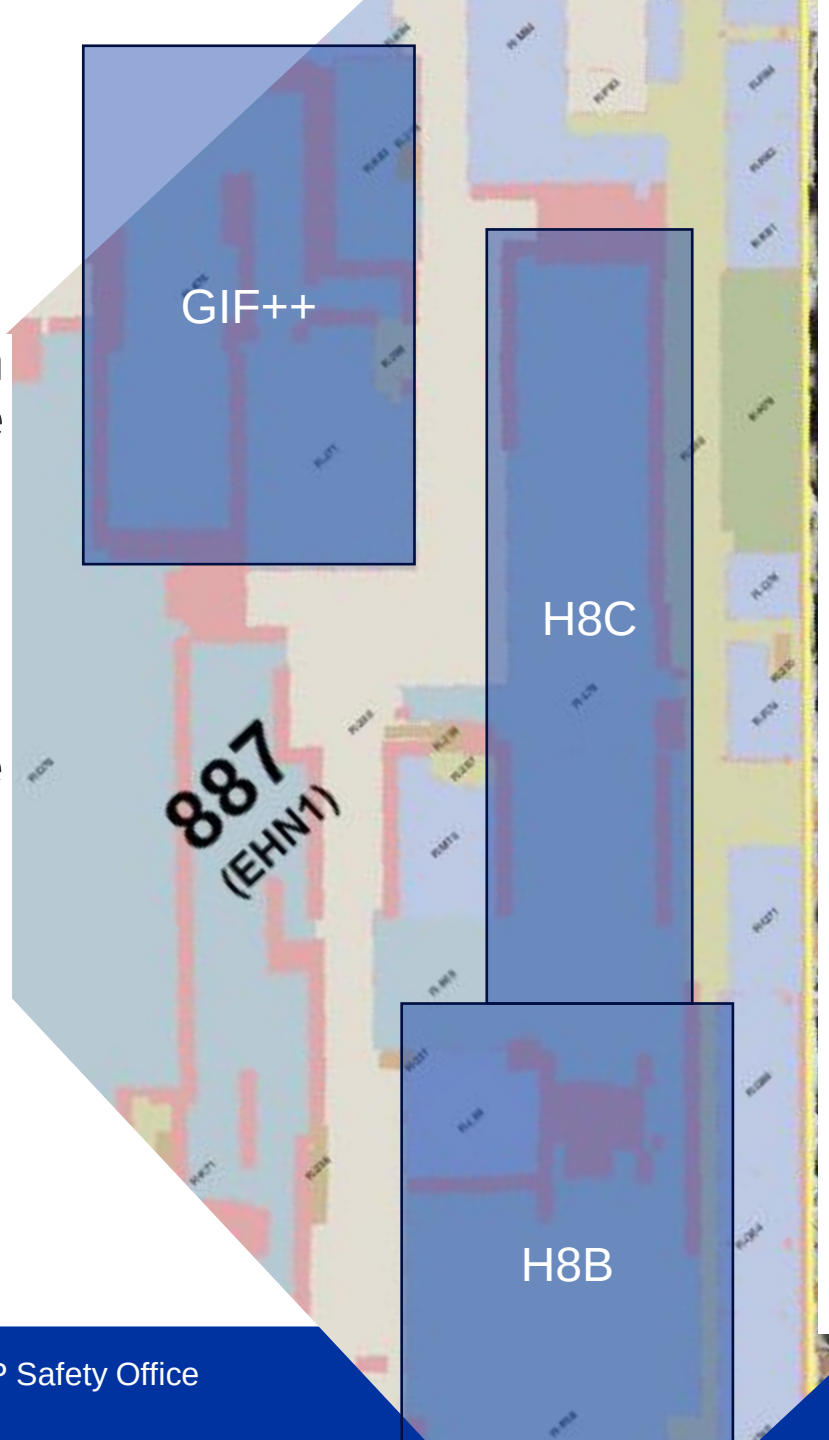
GIF++ AUL Tests

Update following tests conducted 12/01/24

Situation

- AUL tests are typically done during the shutdown period, with a ‘positive’ test – i.e. checking that the areas which should be cut are cut. Other areas are not checked for power cuts.
- GIF++ AUL was retested 22nd September 2023 after the relocation of the switchboard near the bunker.
- Maarten and Dipanwita from BE-EA-LE were informed by the users of power cuts to two of the H8 control rooms. The CCC were unaware, as the AUL does not create any alarms.
- Power was eventually restored, and a follow up test was scheduled for 12/01/24.



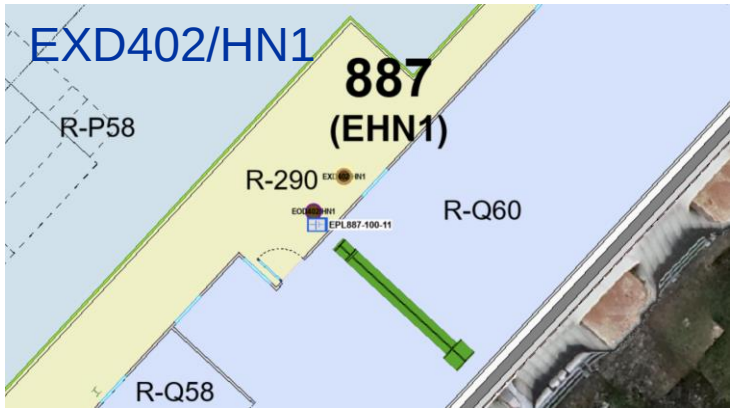
AUL test conducted 12/1/24

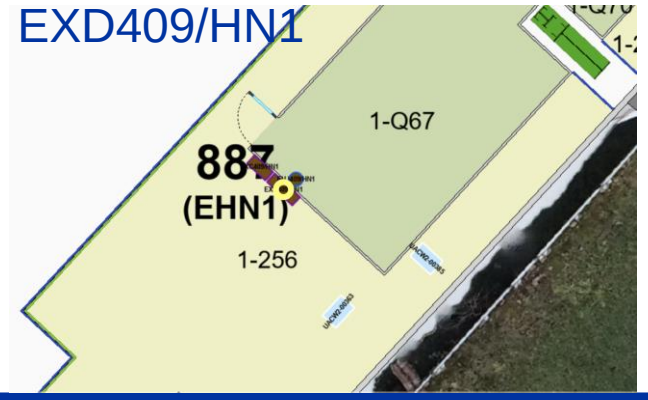
- The GIF++ AUL was retested on Friday afternoon.

- The following switchboards and zones were affected, beyond the expected GIF++ zone:

Zone	Switchboard	Comment
H8B	EXD409/HN1, EXD402/HN1	Power to control rooms and beam line zone
H8C	EXD404/HN1	Power to control rooms and beam line zone, link to GIF++ cannot be removed until EXD430/HN1 is replaced.

- One MN coil in EXD409/HN1 malfunctioned during the test (failed to trip during the first operation but operated correctly in the following tests).





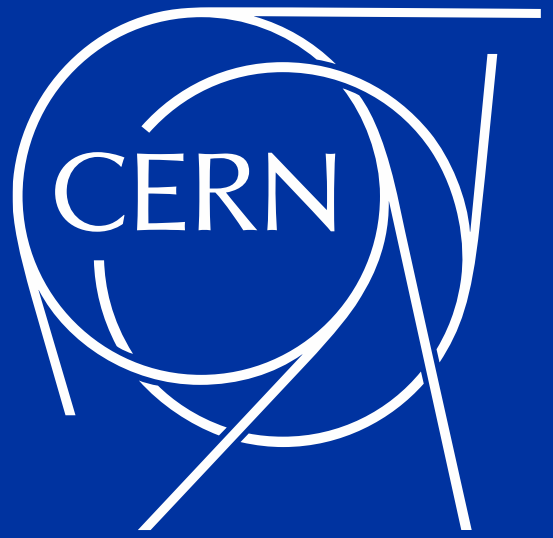
Follow up actions:

1. Removal of MN coils in EXD409/HN1 and EXD402/HN1 to prevent impact on H8B zone.
   - Removal document by BE/EA produced, but comments from HSE must be addressed before this document is validated – revised risk assessment required. Once validated, EN/EL can intervene to remove the AUL link rapidly.
   - The ideal timeframe for this intervention is before 26/2/24, when MADMAX will start operation.

2. Replacement of EXD430/HN1 (GIF++ control room switchboard), to permit decoupling from H8C zone. MN coil may subsequently be removed from EXD404/HN1, removing the impact on the H8C zone. Currently planned for replacement in LS4 as part of NA-CONS.

AUL test report (EDMS 2956970) covering tests in 2023 and 2024 has been updated and will be released in 2 weeks' time, considering any comments.

EN/EL have a longstanding action to remove the NANO PLC's in EHN1.


CERN