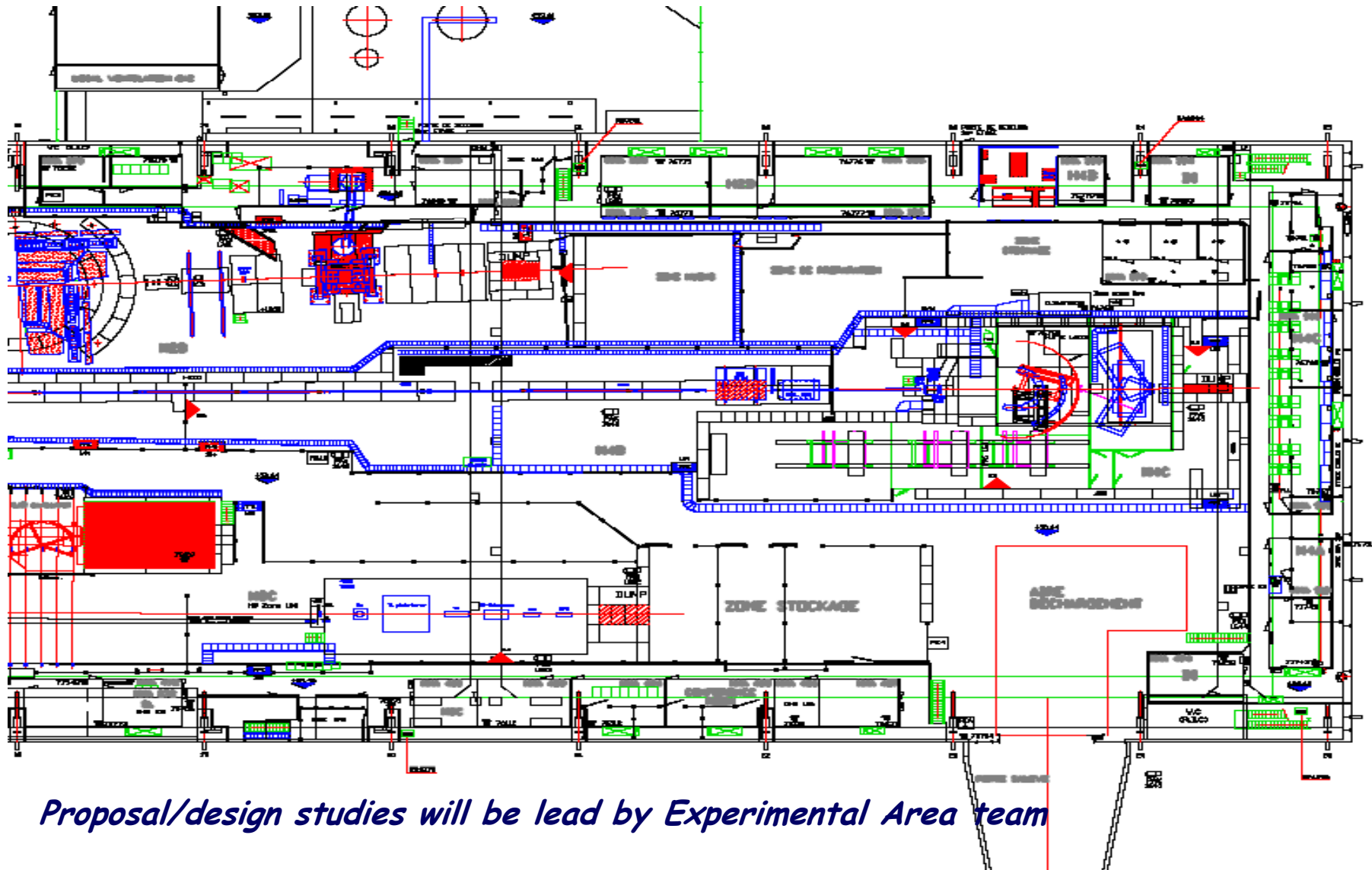


Overview on the Proposal for a new GIF

- Summary of the document distributed to the users and available at <http://project-wp7.web.cern.ch/project-WP7/>
- Beam of secondary particles
 - Muon beam, about 10^4 particles per spill, 10cm x 10cm, beam momentum order(100GeV) → SPS North Area EHN1
 - *Possibility of other particles as well?*
- Layout, zone dimension
 - Need to host large objects (questionnaire: 3m x 1.4m x 0.5m), thus ~ 10m (along the beam) x ~7.5m (lateral to the beam)
 - Fast and easy access, even for large objects (improve duty cycle compared to old facility)
 - *Chicane? Shielded, movable roof??*
 - Temperature controlled zone - tent-structure (RPCs)

An early Proposal (I.Efthymiopoulos, Dec'07)

- GIF++ in the H4 beam line



Proposal/design studies will be lead by Experimental Area team

Overview on the Proposal for a new GIF (cont.)

- Photon Source

- Old GIF: 740GBq in 1998, 15rad/h at 50cm

- New GIF: ~10xhigher

- ^{137}Cs source as old GIF (662keV photons)

- ^{60}Co source (1.17MeV + 1.33MeV photons)???

- Lower conversion efficiency; thicker shielding needed; short life-time (5.2 years)

- Movable filter system, attenuation up to 10^5

- Second irradiation beam defined by separate collimator?

- Controls

- Irradiator and beam to be controlled from single console located in Control Room next to area

- Key feature: remote operation in unattended mode

- Peripheral infrastructure

- Electricity, fire detection system, gas supply, ... see document

GIF++ Time Scale Assumptions

- June-Sep'08: evaluation of scenarios and design proposal
 - Sep'08 - March'09: Preparation of Technical Design Proposal (AB Dep.)
 - Sep'08-Feb'09: Design of final infrastructure (not related to the particle beam)
 - Apr'09: Approval of Technical Spec's
 - May'09-Dec'09: Procurement and Construction
 - Jan'10-May'10: Infrastructure Commissioning
 - May'10: Target date "ready for users"
 - Dec'10: First report of results
-
- Need strong and continuous support/contributions/help from user community
 - Working group, regular meetings...