GERDA Integration & Schedules

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GERDA Collaboration Meeting at Ringberg 12 – 14 February 2007

Integration Issues

Superstructure

HEB700, IPE120 beams positions dto lowest edge of lock / shutter floor cut-out of ss damped ? fixation of lock on ss required precision of fixation of lock

2 cm in x & y (horizontally) access to manifold transport cart(s) to manifold

Cryostat

final height
template ➤ ordered at HD
interface to WT ➤ done
mounting of PMTs ➤ info by next week
mounting of reflector foil ➤ dto
protection during WT building ➤ yes

Water Tank

final diameter of hole in WT's roof ►Ø1900 final height ► by next week interface to cryostat ► done gas-proof connection WT – cryostat who is responsible? ► design MPI HD final decision on heater for exh. Gas ► heat exchanger within WT who will implement that? ► MPI HD

• Exhaust gas tubes, cryogenic lines, cables,...

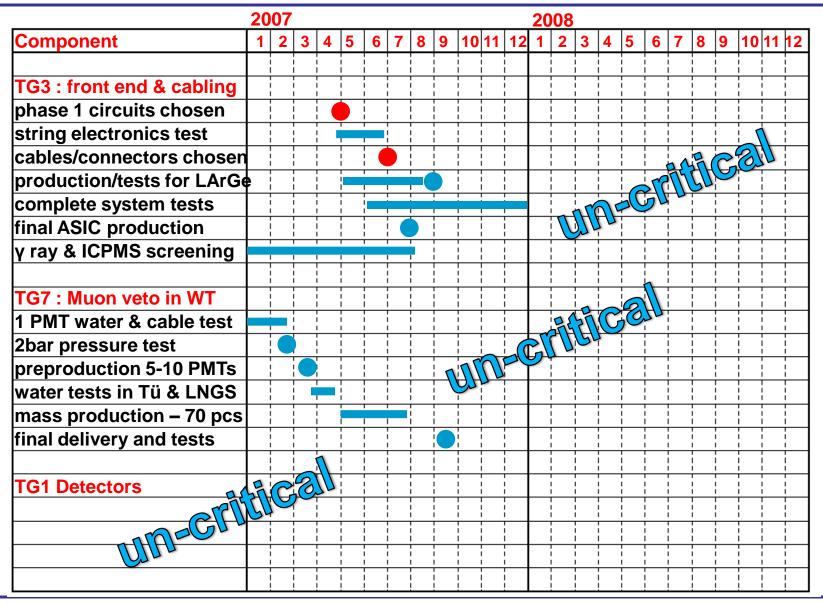
plan including ► meeting at LNGS

- a) fixations
- b) feedthrus for cables cleanroom electr.
- c) feedthrus for pipes cleanroom cryo infra
- d) connection to LNGS ventilation
- d) shall we use halogen-free cables?

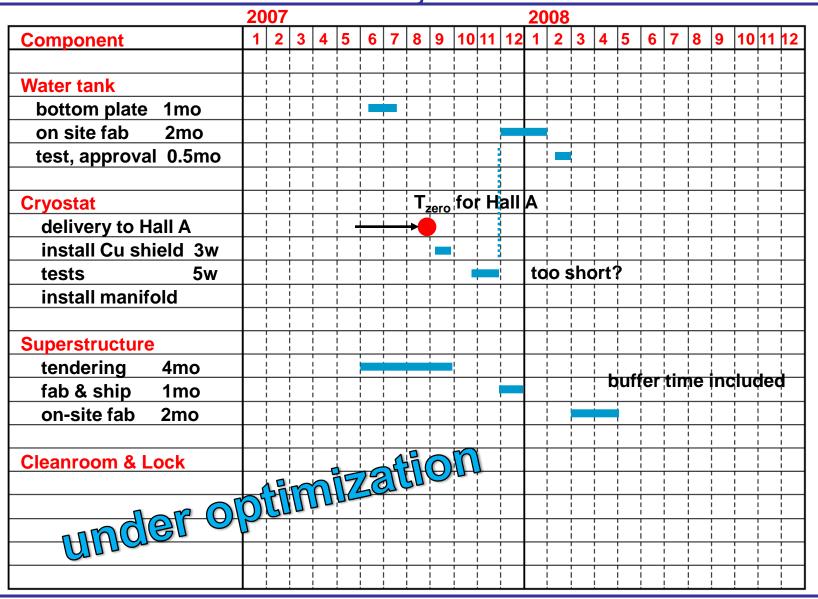
Integration Issues

- Faraday cage room for electronics with very stable air conditionning & water cooling concept ➤ no Faraday cage room necessary who will take reponsibility for designing ➤ C&B / building it ➤ MPI Mu?
- Final decision on grounding scheme and ist implication for isolation of
 no isolation of cryostat etc, but isolation of all electric lines including ground
- Cables for phase 1 (phase 2?) detectors
- Installations needed already this year at GERDA site for cryostat tests
 electrical, pressurized air, LN2 storage, scaffolding, ... ►all but LN2 available
 wall in front of LVD? ►to be handled by LNGS
- Coverage of Superstructure tender: ➤ steel stucture, walls, doors, floors,...
 What will we need in addition? ➤ all the rest
- Concept / location of LN2 and LAr 5.0 (6 ≥?) storage tanks
 integral concept for GERDA/DetLab needed; location not yet defined
- Radon reduction unit ► different judgements, decision postponed

TG 3 & 7 Time Schedule as of Feb 07



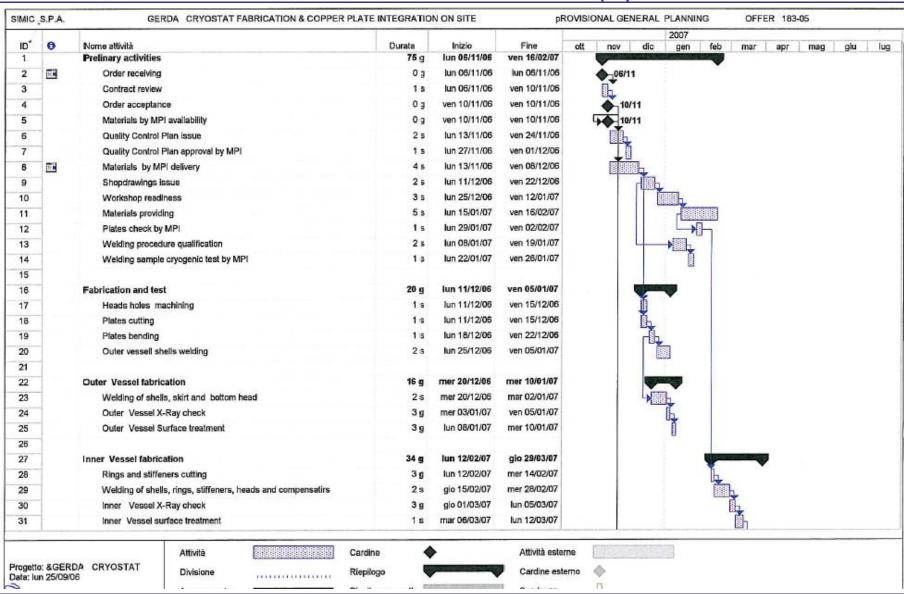
Feb 07 Time Schedule Projection for Works in Hall A



Conclusions

- very effective integration and schedule session thanks to all participants!!
- schedule not yet well predictable, T0 = cryostat delivery
 - vesselhead delivery now shifted to the end of Feb.... delayed by almost 3 months
 - hope that cleanroom / lock installation schedule can compensate for some lost time!

SIMIC Time Schedule (1)



SIMIC Time Schedule (2)

