MPE Workshop
14/12/2010

Building 867

A controlled facility for the repair of radiated material

Betty Magnin TE-MPE-EM

Building 867

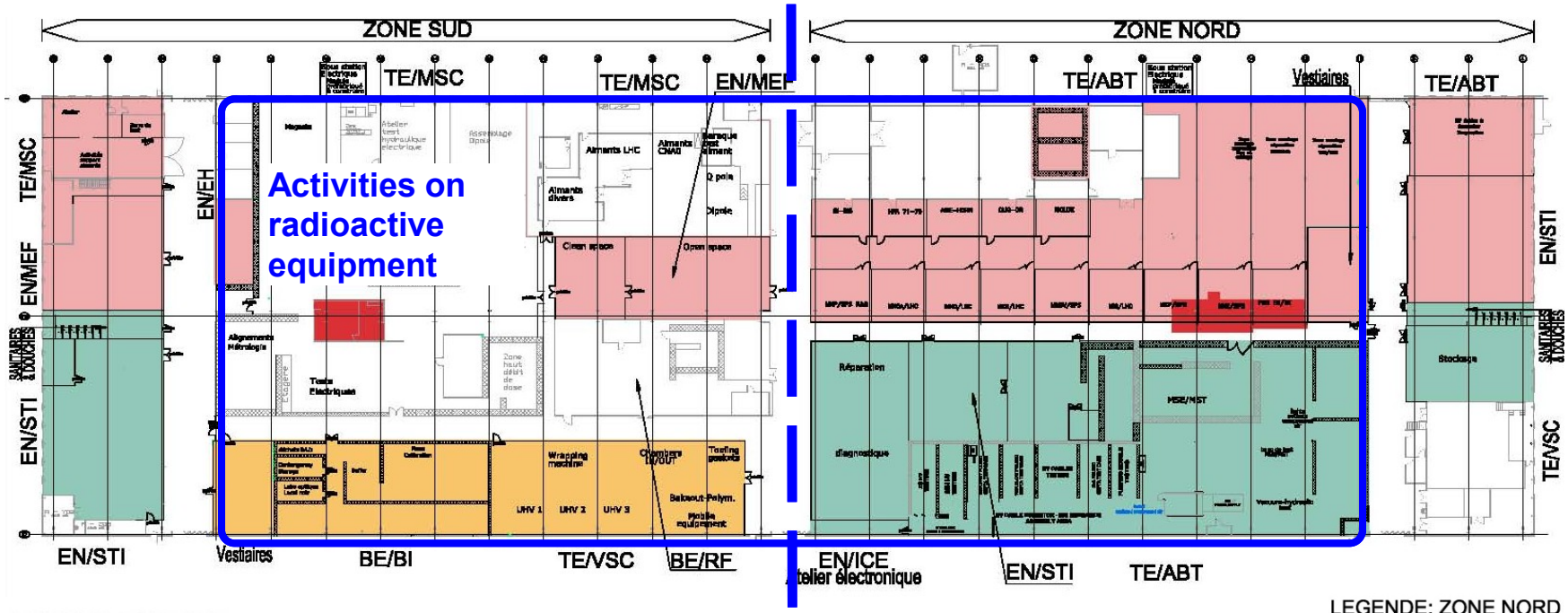
In Sept.09 the Site Committee mandated a Study Group to provide a detailed planning and budget for restructuring bldg.867.
This Study Group has put forward a plan for independent work packages, which can be staged in time.
For each work package, a summary of all known costs is given, although they might be covered by different budgets (e.g. bldg.174).
Final Remarks : The move of AMS and CMS and the re-location of some activities on non-radioactive equipment is required. Traceability deserves separate consideration

A second study group led by D.Tommasini and N.Lopez has worked hard under a tight schedule (Oct 2009 – Jan 2010).

With respect to the original proposal, compromises have been necessary, namely: EN-STI activities not linked to radioactive equipment cannot be relocated because of lack of alternatives; the electronics lab is smaller than requested.

Building 867

The detailed layout proposal



The study group has delivered
detailed dismantling plan, new layout, safety arrangements, restructuring strategy, baseline planning.

Features of the new layout are:
light, easily moveable separations; no mezzanines in the "radioactive area"; 2x changing rooms and lavatories; transformers outside the building

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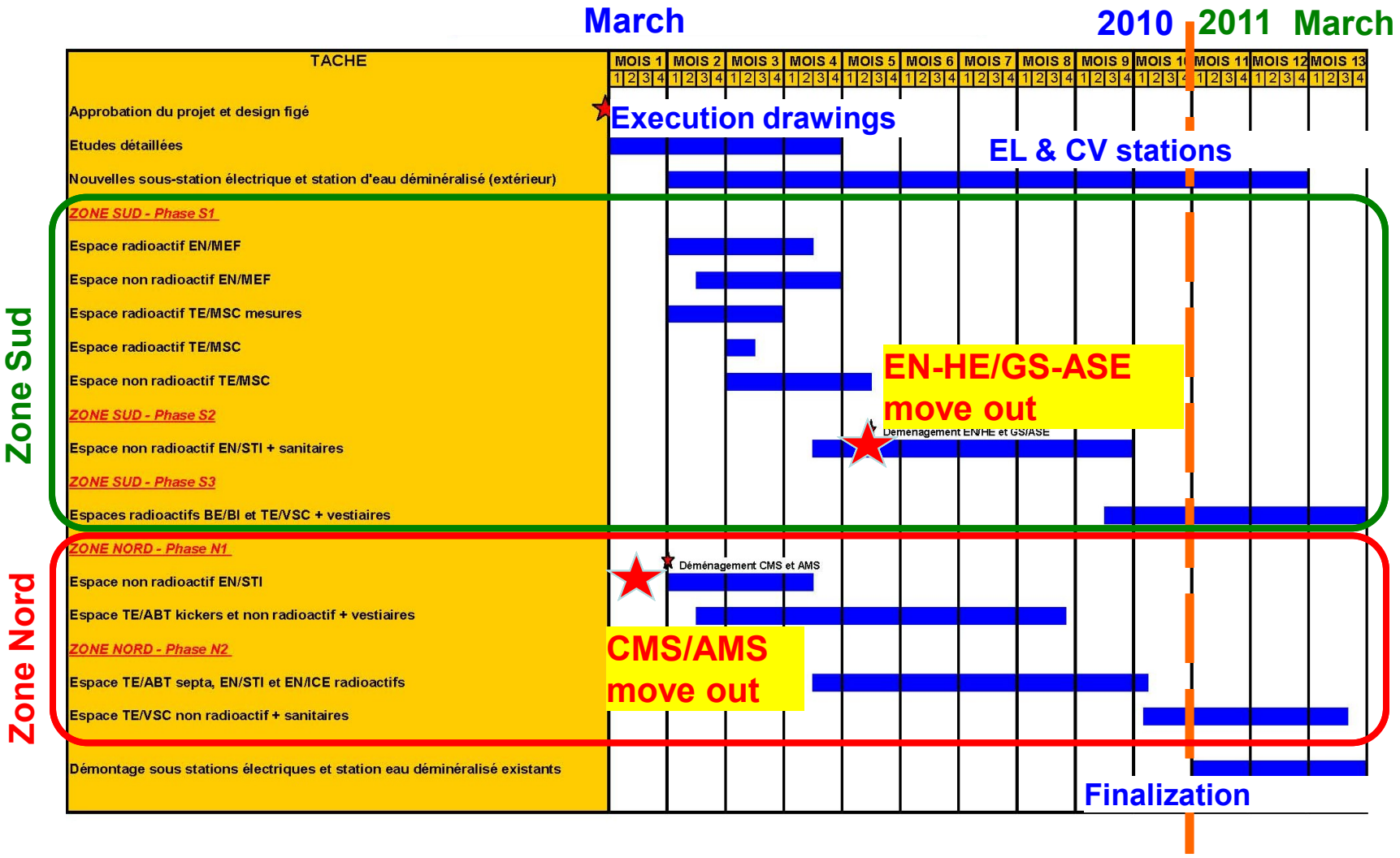
Baseline planning



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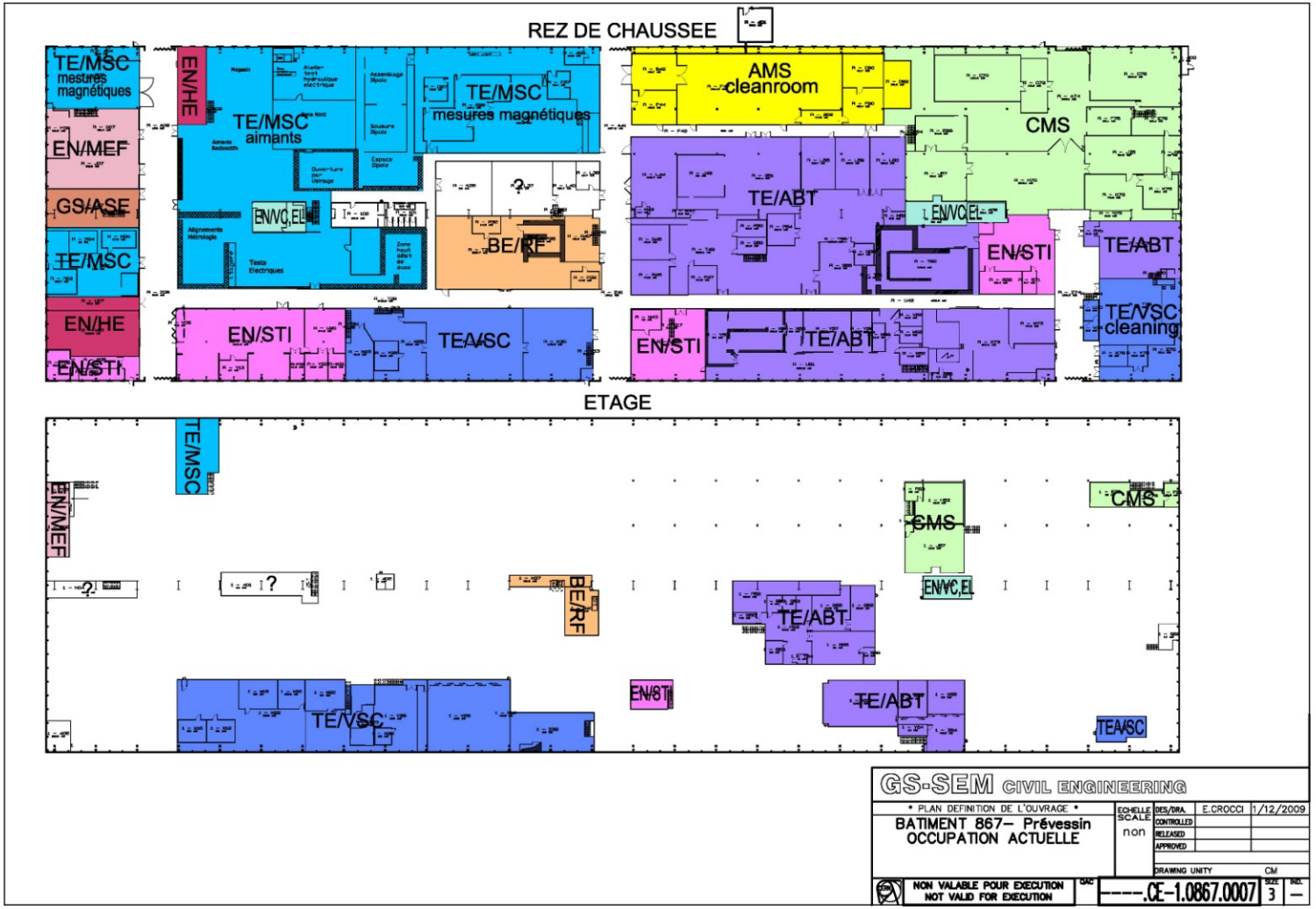
General project layout : BEFORE



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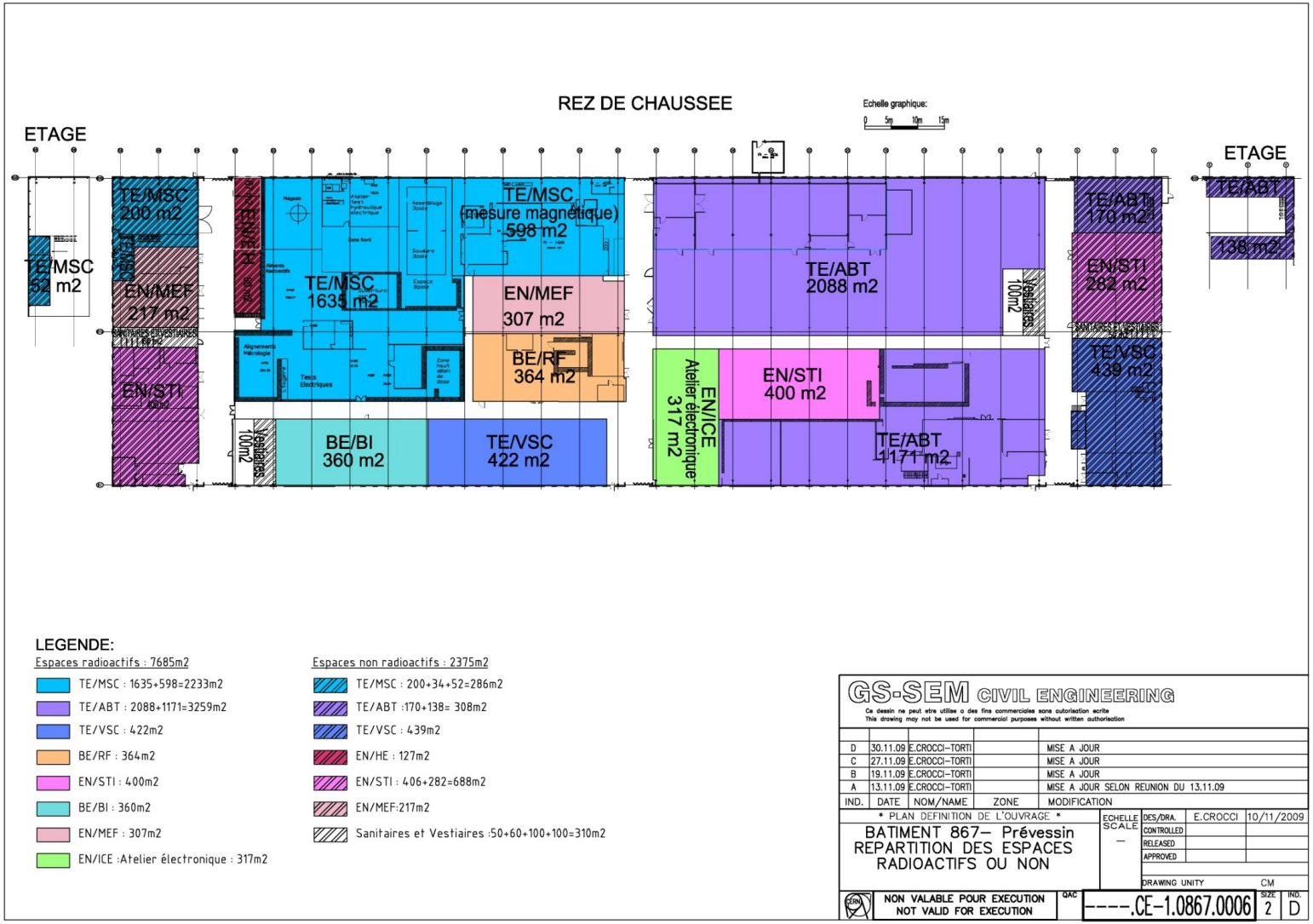
General project layout : AFTER

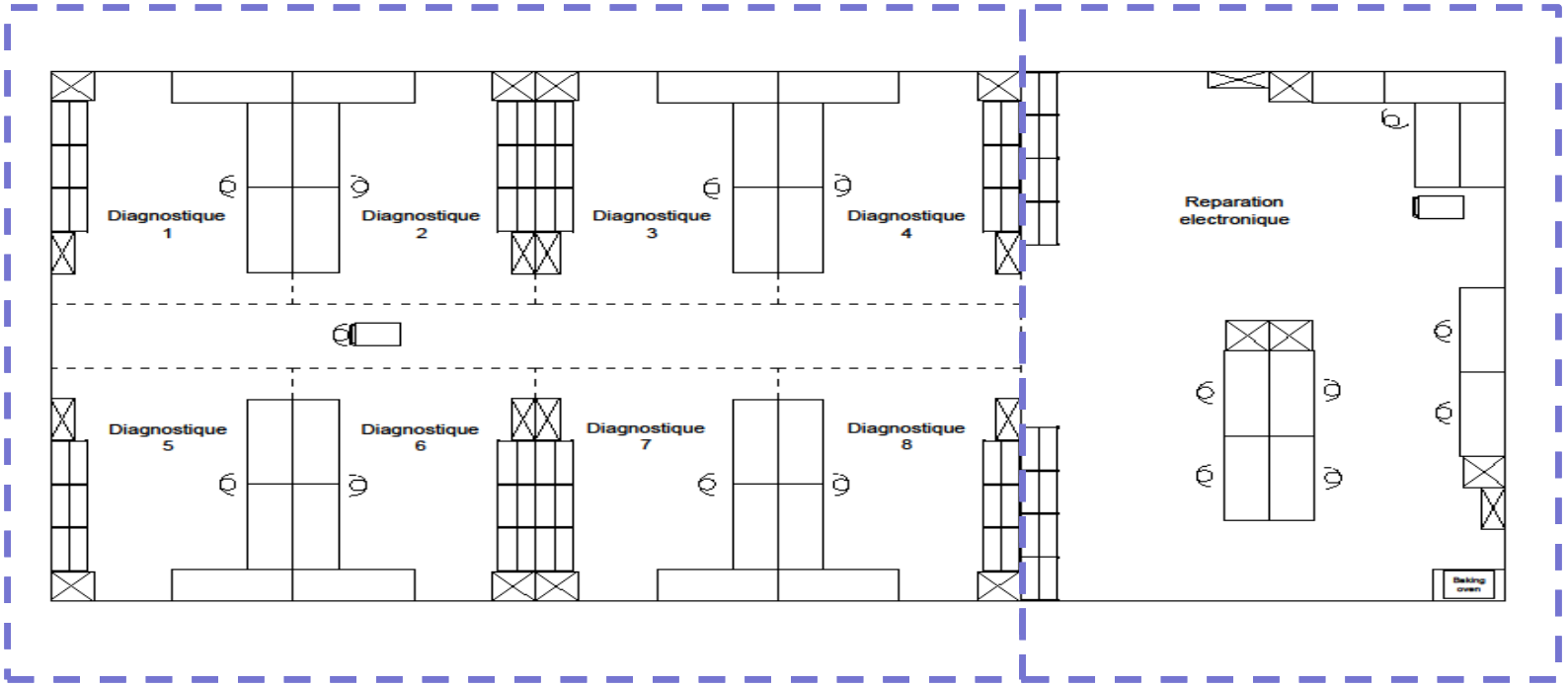


Building 867

The electronic repair workshop

Diagnostic and repair area
All declared users

General purpose
repair area
TE-MPE-EM staff



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Collecting requirements of declared users

User	BE-ABP-SU	TE-CRG	TE-EPC
Description	Storage, diagnostic		
May 2010 surface requirement	15	25	0
Nov 2010 surface requirement		15	7
Contact person	A. Marin	G. Penacoba	Y. Thurel
Type of work to be done at this place	Test and simple repair	Test and diagnostic	Test and diagnostic
Workbench, shelves, cupboard	1 Etabli (fourni par RP) 1 Tapis antistatique 1 Étagère ou armoire (fourni par RP)	2 établis (dont 1 avec tiroirs) 2 étagères (murales ou indep) 1 petite table à roulettes (1mx1m) Tous munis de tapis ESD 1 baie 19", 80x60x220	1 étagère (1.20*0.6*2.0) 1 établi (2.2*0.6)
IT, mains	1 barrettes de prises 220v 2 prises Ethernet	Au moins 4 connexions ethernet, 2 reglettes 230V/6A avec disjoncteurs séparés	
Comment		Il serait intéressant d'avoir des facilités pour passer des cables en hauteur entre la baie et les établis	layout proposé : http://te-epc-lpc.web.cern.ch/te-epc-lpc/facilities/hall867-epc/general.stm
Required equipements for test and diagnostic	1 Multimètre scanner KEITHLEY 2700 20 canaux 1 Rack bleu si il y a de la place 1 PC rackable ou standard dans le rack ou sur table 1 Scopes numérique	- baie 19": banc de tests automatiques et gateway FIP - établi 1: PC (avec barcode reader et microscope USB) et crate de test - établi 2: PC connecté au banc de test - table à roulettes: multimètre digital et oscilloscope	1 computer + 2 écrans 1 FGC tester 2 rack 19" (0.90*0.60*2.0)
Type of equipement for repair	1 Bino à partager avec Julien ou des loupes d'horloger à mettre sur la tête. 1 jeu d'outillage : tournevis, pinces..etc.		
Pouvant être dans une zone partagée	1 Poste à souder Normal et SMD		

Building 867

Pending actions:

- Collaboration with SC, RP, EL, CV, IT,…
- Training for staff (RPE, work in controlled areas)
- Order equipments for the general purpose repair area
- Optimize a final layout with the declared users
- A 260kCHF budget has been defined for this project

The workshop should be in operation by 2011/Q1 or Q2