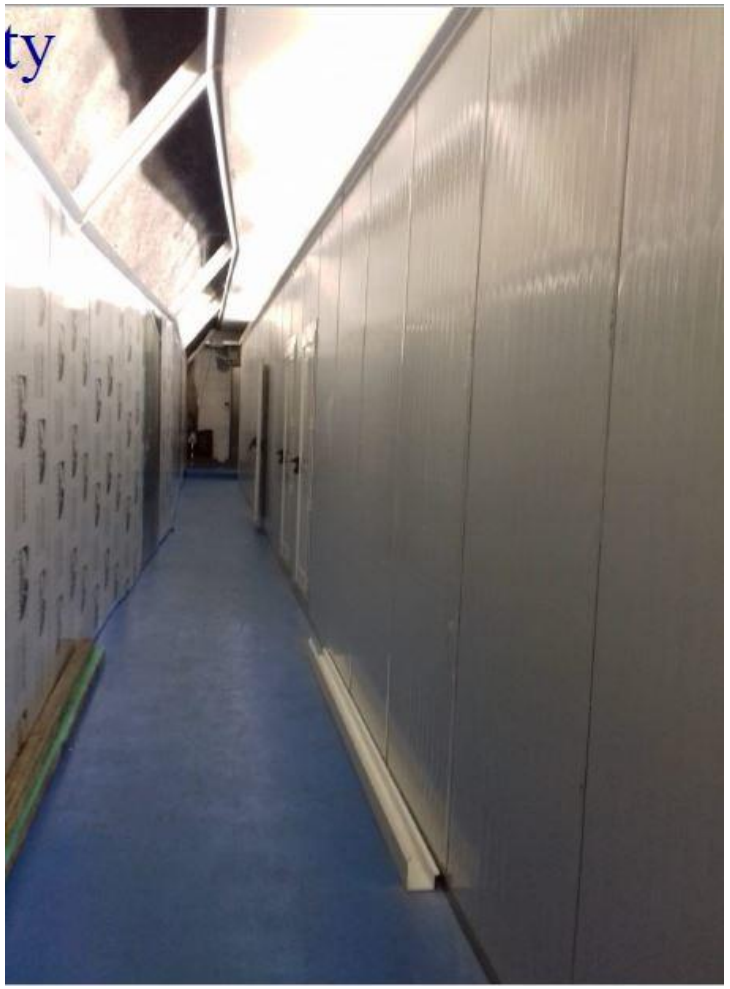
Planning the start up of the New facility (Hall F)

Boundary conditions

- **Schedule for full completion still undefined**
  - ➔Keep operational Old facility (Hall B)
- **Decommissioning of Surface Lab (Lab 1) started**
  - ➔Recovery of items for NEWS
  - ➔Preservation of a site for surface activity (NEWS et al.)
- **Stringent regulations for Underground activity**
  - ➔Careful design of storage sites for chemicals, pipelines for liquids, etc.
  - ➔Provide detailed safety sheets for each and every item

Lab 1, below-ground floor

Old facility in Hall B



New facility in Hall F

Guidelines

- **A unique opportunity to set up a dedicated underground infrastructure**
  - ➔Define functions, instrumentation, logistics, furniture
  - ➔Keep cleaness, take care of items, do not put here and there temporary/useless stuff
- **Detailed procedure and schedule needed for the installation of main instrumentation**
  - ➔Grant completion of inner ventilation, water supply, power supply, safelight etc. before coming
  - ➔Specs & dimensions of monolithic component
- **Aim at early technical tests for single operations, do not wait until everything is ready everywhere**
  - ➔Early checks of each part of the new facility
  - ➔Timely training of unexperienced people needing a driving license asap
  - ➔Aggressive plan to prepare TDR by the end of 2018

...A wise balance between a long term outlook and being in a hurry ...

The Right Hand tells you
"Be careful about your action"

The Left Hand tells you
"Come soon, be confident about your way"

A key process for the new facility – very clean environment required!

Overall production process

Prepared chemical solution

- Gelatin filtering process
- Prepare the chemical ($AgNO_3$, NaBr and other solution)

Production machine

Crystal growth

In the freezer

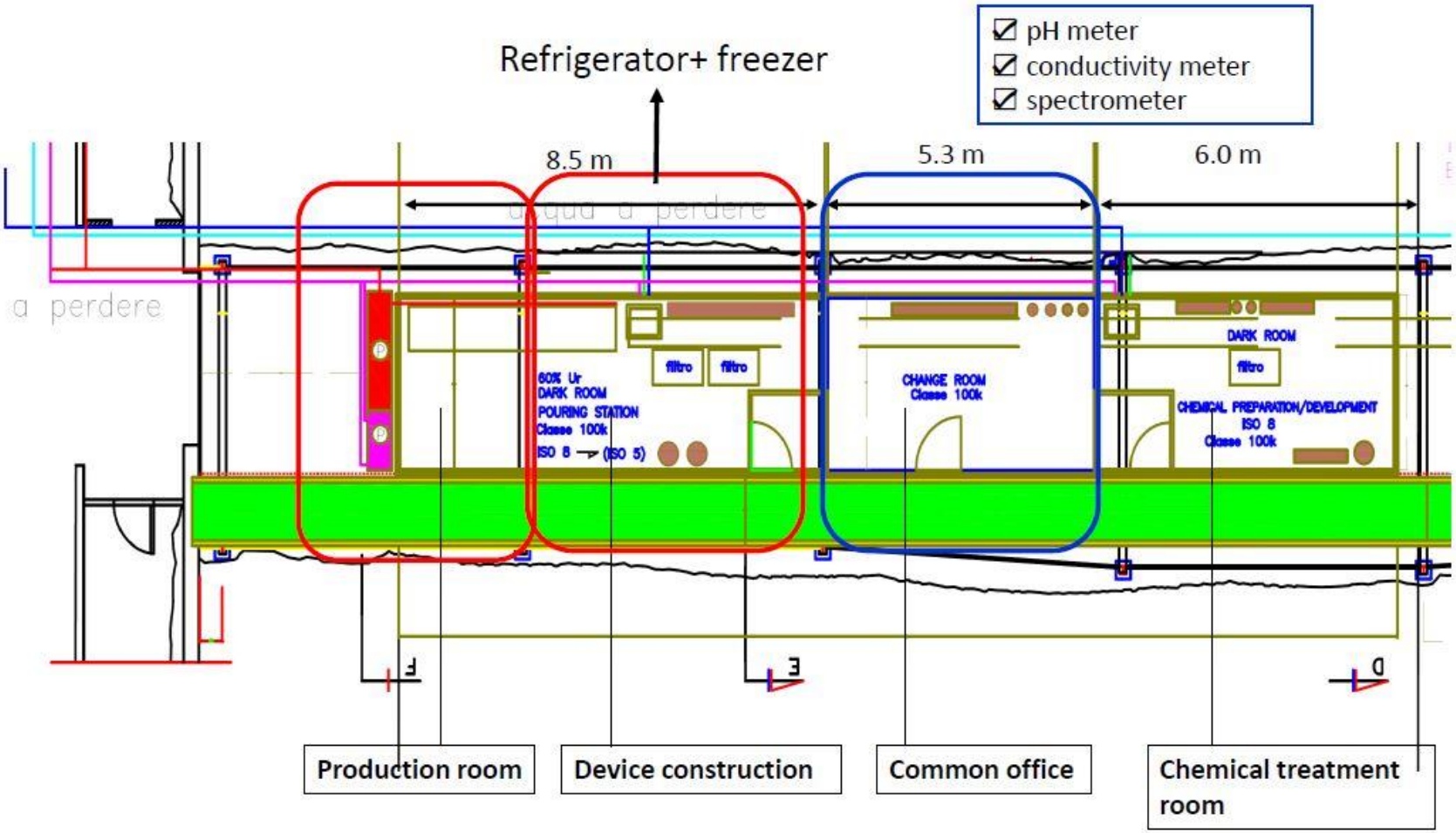
In the refrigerator

Set the gel by freezer

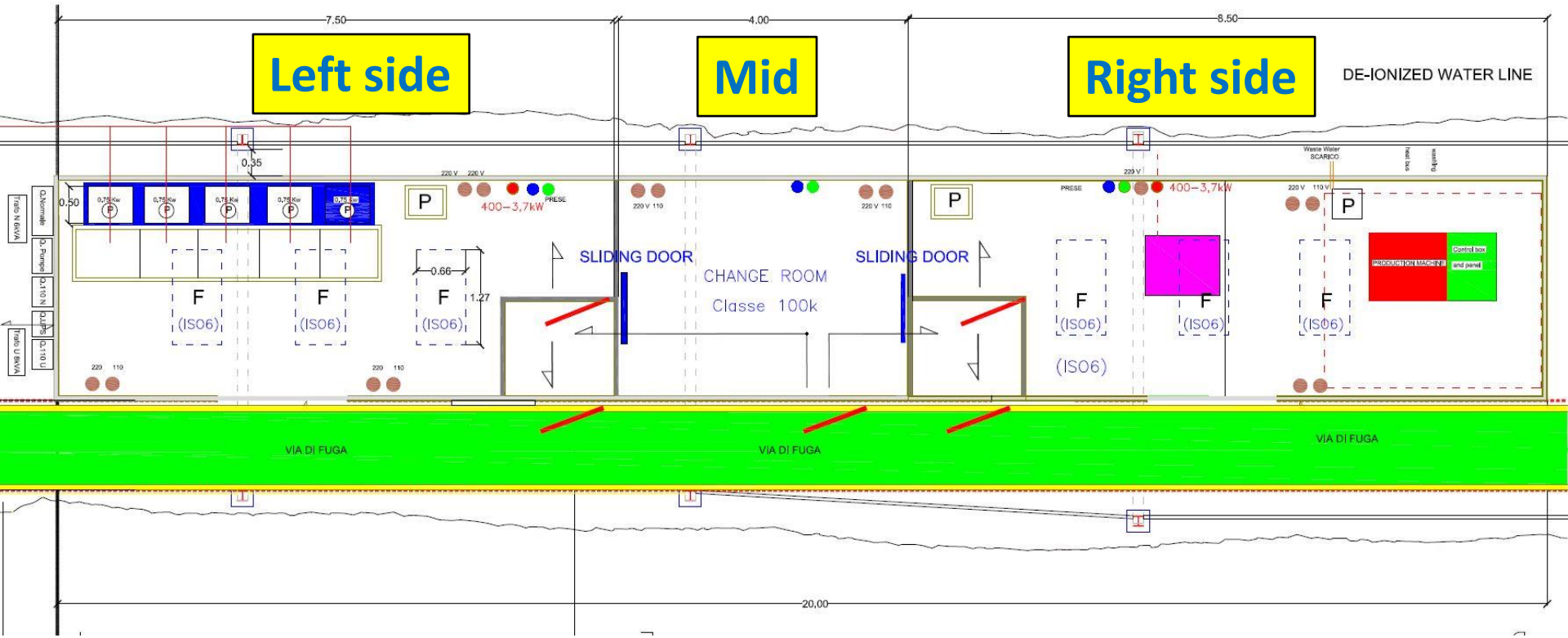
De-ionized by diffusion in the water (in the refrigerator)

Go to pouring process

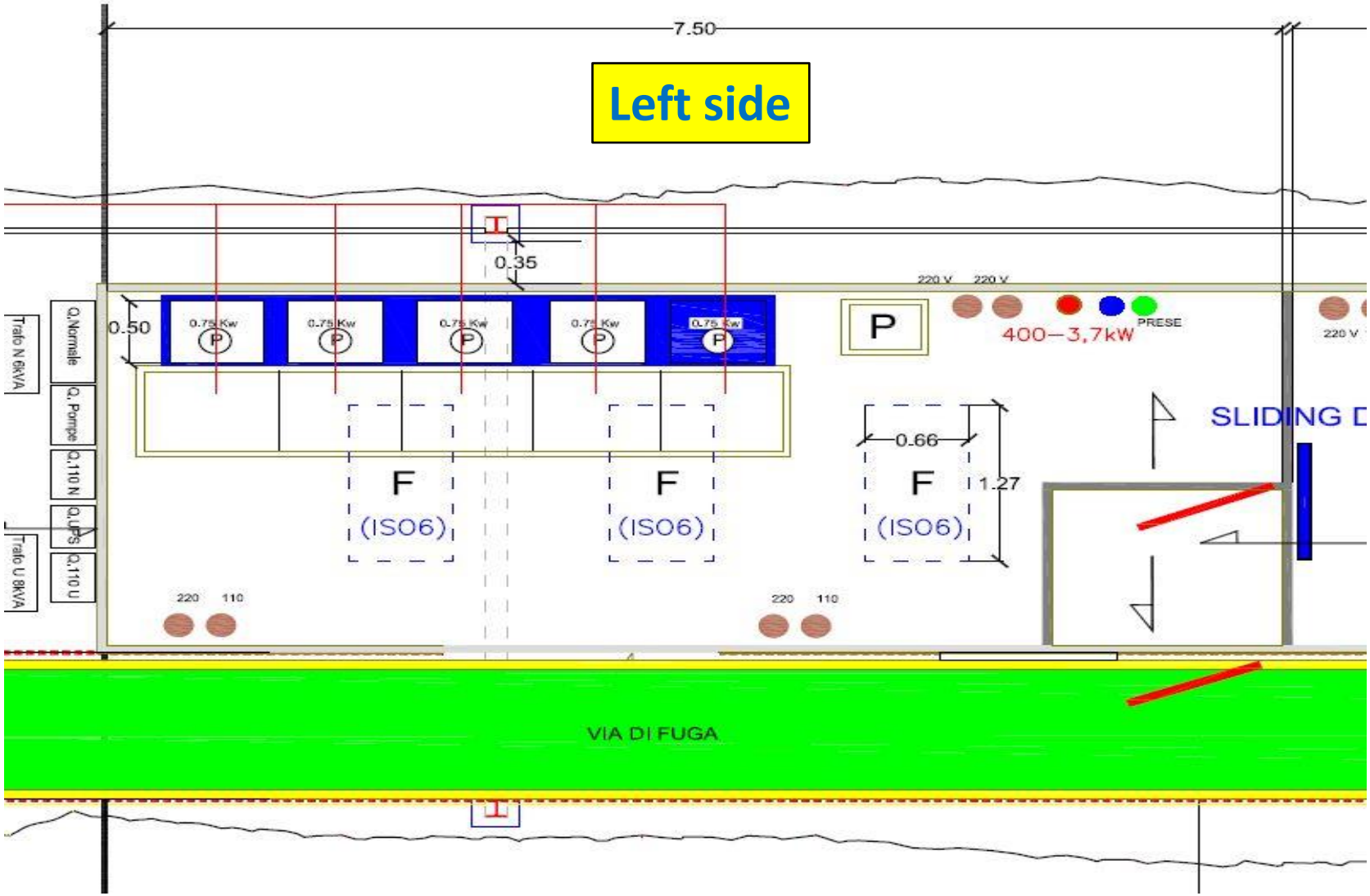
- ☑Conductivity
- ☑pH
- ☑Absorption of light

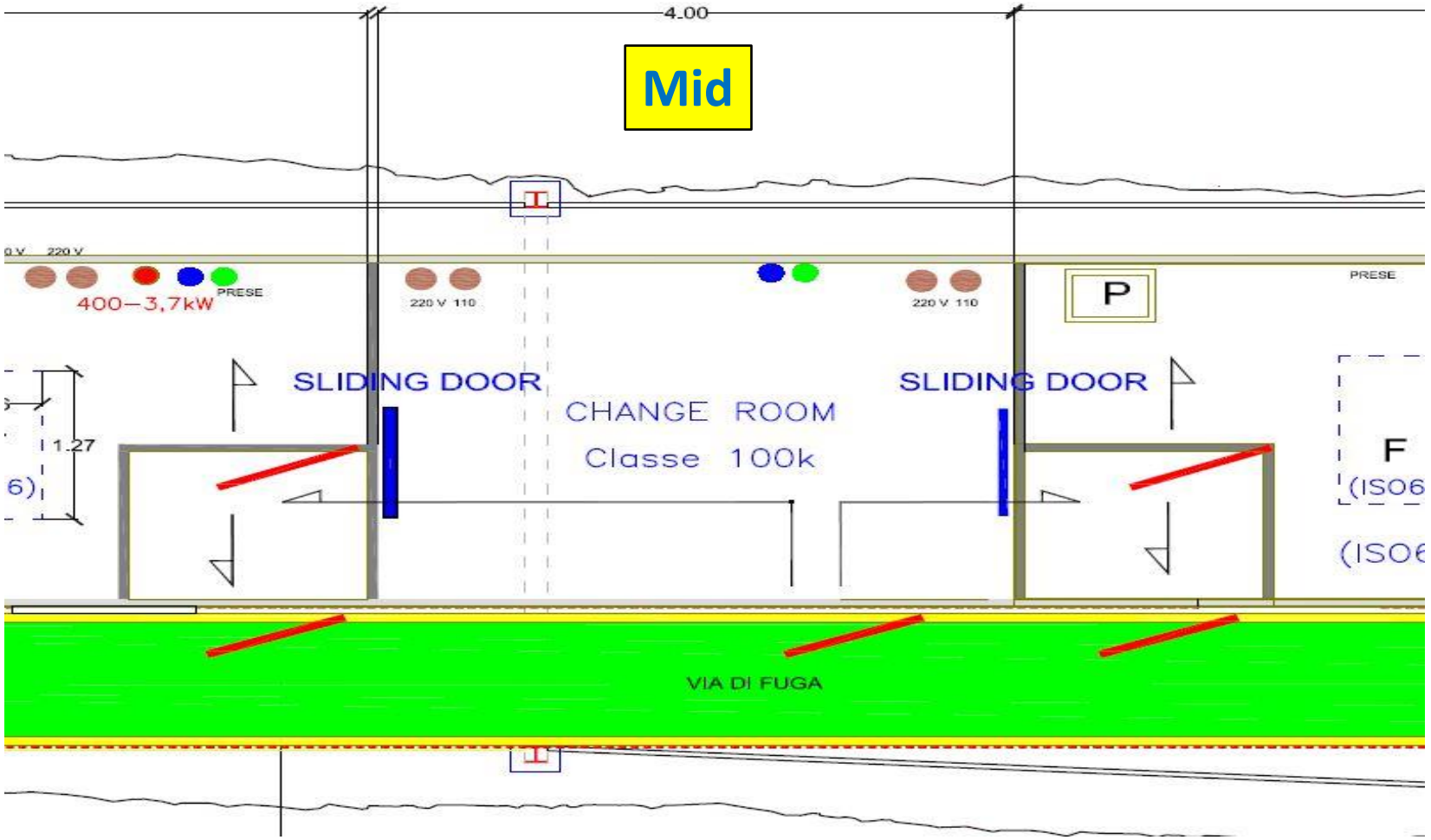


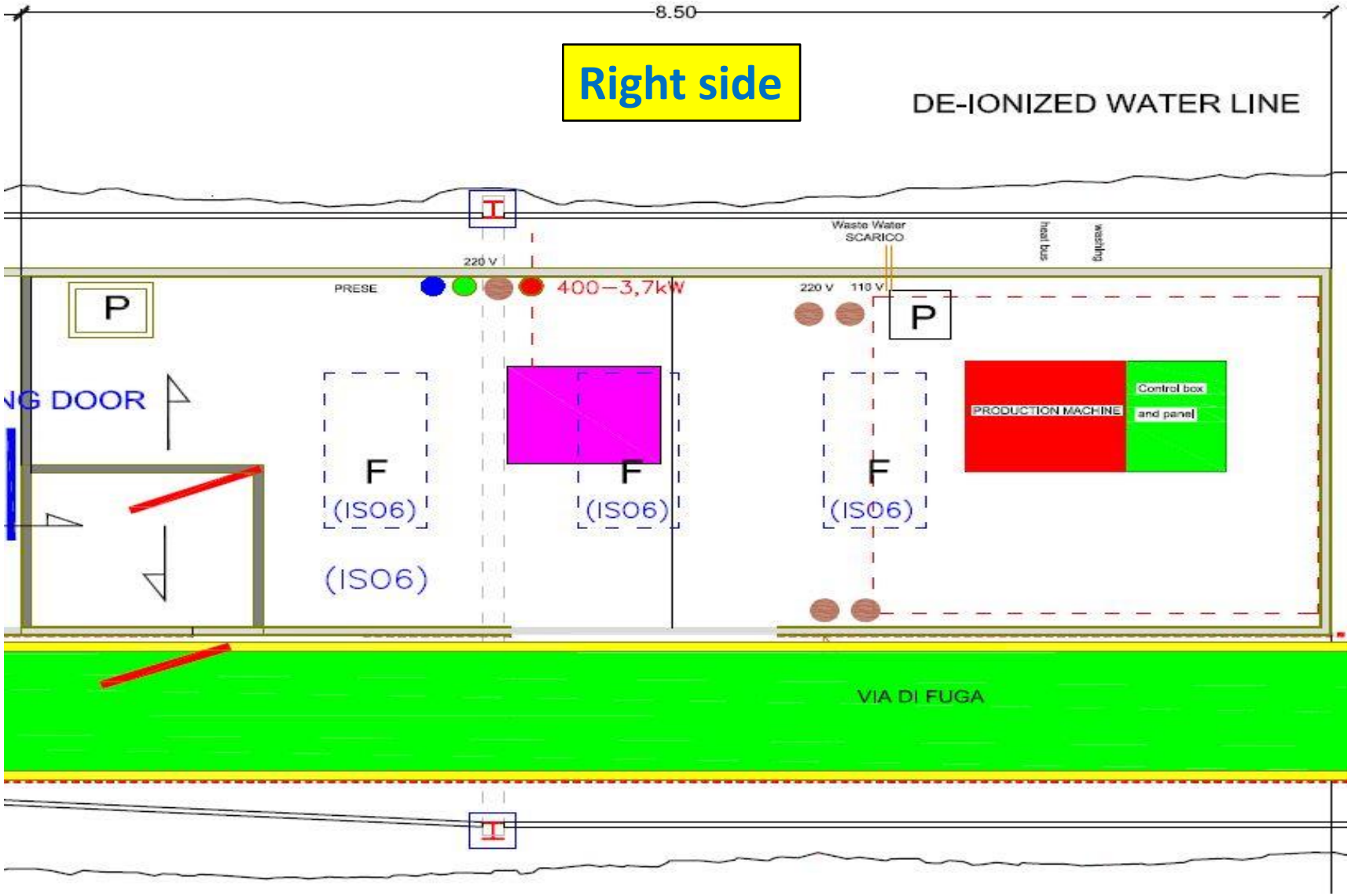
Sketch by Naka-san, this meeting



How the new facility is actually built


Left side
7.50
0.35
0.50
0.75 Kw
P
F
(ISO6)
0.66
1.27
220 V
400—3,7kW
PRESE
SLIDING D
Trafo N 6kVA
Q.Normale
Q. Pompe
Q.110 N
Q.UPS
Trafo U 6kVA
Q.110 U
220
110
VIA DI FUGA


4.00
Mid
220 V
400—3,7kW
PRESE
220 V 110
220 V 110
P
PRESE
SLIDING DOOR
CHANGE ROOM
Classe 100k
SLIDING DOOR
1.27
6)
F
(ISO6
(ISO6
VIA DI FUGA


8.50
Right side
DE-IONIZED WATER LINE
220 V
PRESE
400–3,7kW
Waste Water
SCARICO
heat bus
washing
220 V
110 V
P
P
NG DOOR
F
(ISO6)
F
(ISO6)
F
(ISO6)
(ISO6)
PRODUCTION MACHINE
Control box
and panel
VIA DI FUGA

Summary & outlook

- After long delay we are about to initiate the New facility
- Old facility can be kept and used as long as needed
- Profit of external resources (i.e. OPERA decommissioning) to recovery and transfer any relevant item from surface Lab
- Fix guidelines right now, watch implementation week by week
- Be careful in construction but aggressive in early tests to check the capability of performing all the steps of the experimental project