ISOLDE consolidation Target production

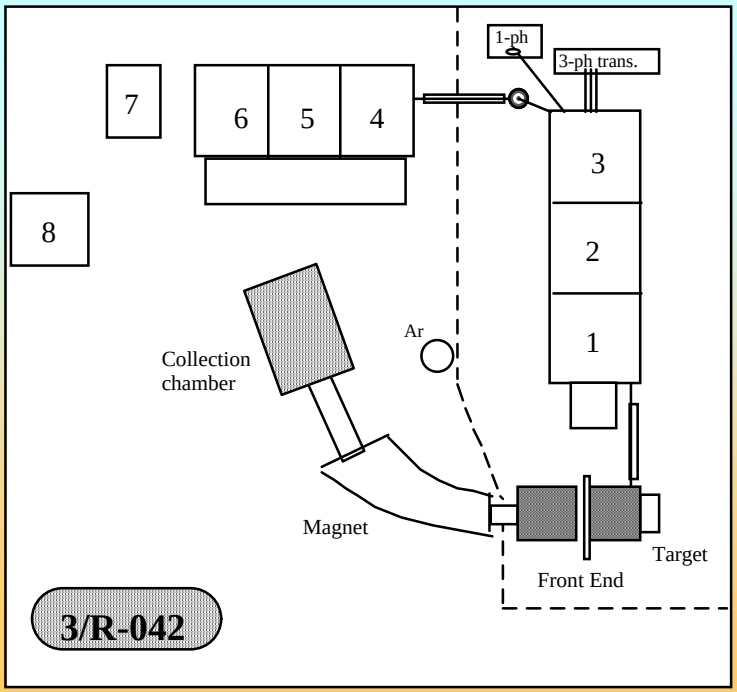
- *Production*
  - Assembly
  - Chemistry
    - Upgrade of storage to actual standards (cupboards, ventilation, floor)
    - Procedures (30%)
- *Test* Automatic Heating-Cooling Sequences
  - Leak test
  - T-I calibration
  - IS-efficiency
  - Stable beams
- *Emittance meter* Scanner, Faraday cup, vacuum system
  - Installation July 2001

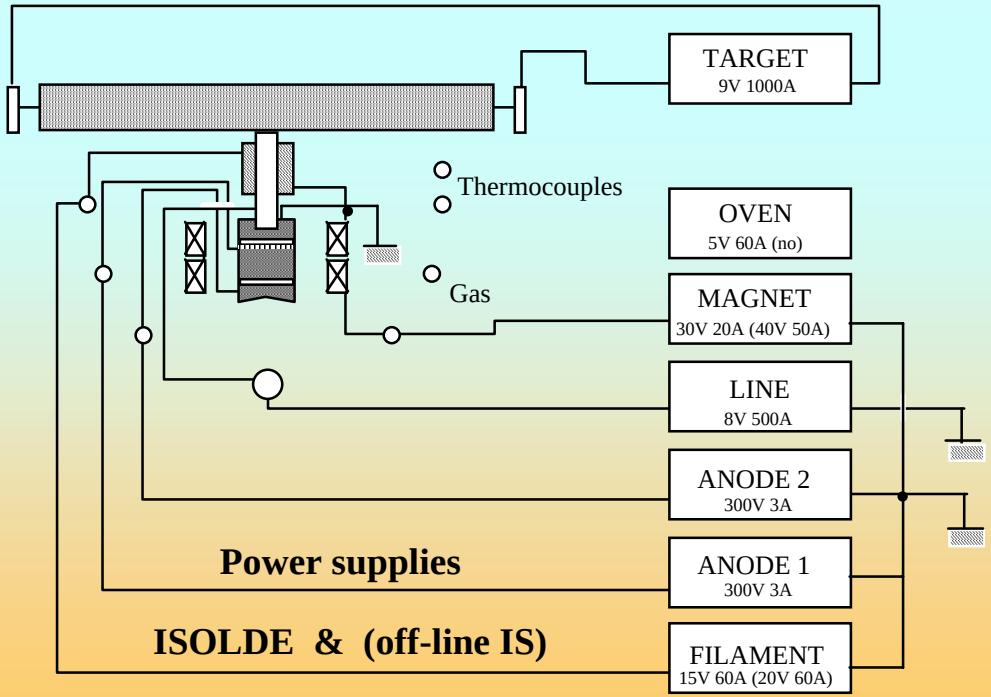
T-I calibration & Synthesis

- Outgasing and T-I calibration (Pump-stand #1)
  - Control, power supplies (p1) 2002
- Synthesis of oxydes and carbides (Pump-stand #2)
  - Transport into the radioactive laboratory 2001
  - Control, power supplies (p3) 200?

Isotope separator (Off-line)

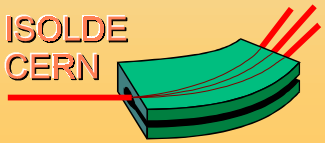
- Power supplies (p1)
- Control of target (2001) and line (p2) *2002*
  - monitoring (vacuum, U, I, T, t, ion-beam) *2001-4 ?*
- Emittance meter (2001)





Historical view

- 1999 List of off-line power supplies transmitted to PO
- 11/2000 PO OP PP-IF meeting on “off line” needs
- 2001
  - power supply & control tests
  - 1 vacuum unit (emittance)
  - 1kA supply manual
- 2002
  - new off line power supplies 2x500A +1kA
  - Control



Costs (2001 budget 140 kCHF)

- Manpower, control, buildings modif … excluded
- power supplies for Pump stand #2 included

Goal: reduction of the hardware multiplicity, improvement of repairability											
Supply name	**n**	**U**	**I**	**control**	**n**	**U**	**I**	**P**		kCHF	#
						[V]	[A]	[W]			
Line	1	8	500	current	***3***	15	200	9000		10	3
Target	1	9	1000	current	***5***	15	200	15000		20	3
Oven	1	20	60	current	***1***	35	100	3500		5	1
Filament	1	15	60	current	***1***	35	100	3500		5	1
Magnet	1	30	10	current	***1***	30	20	600		5	1
Anodes	2	300	3	voltage	***2***	300	3	1800			
Repeller	1	1000	0.1	voltage	**1**	1000	0.1	100			
Vacuum units										35	5
					Power supply efficiency :			80%		**280**	kCHF
					Max power output :			41875			