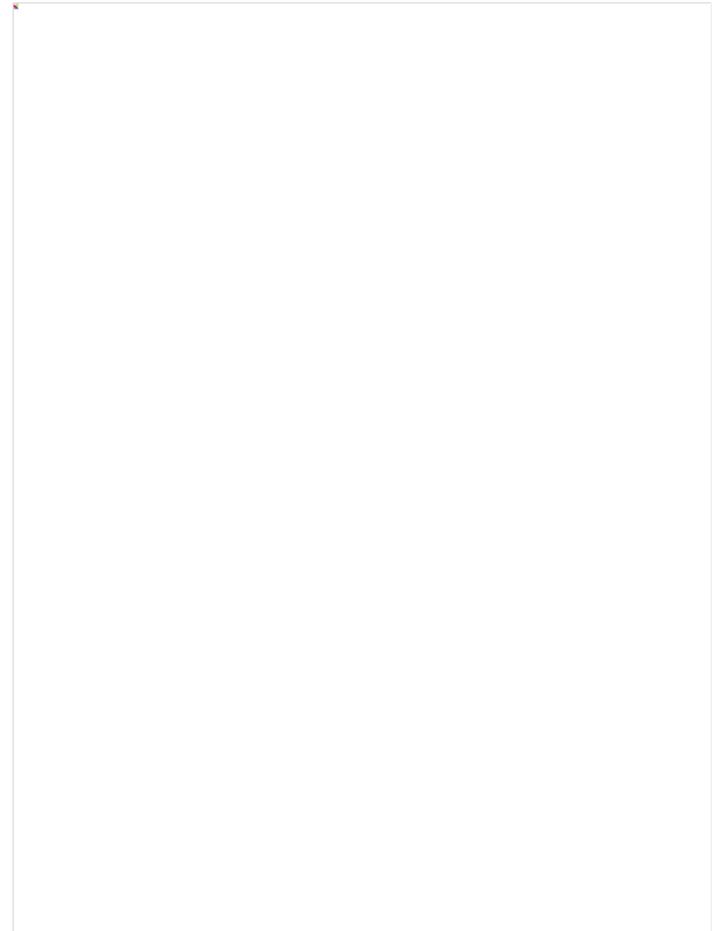




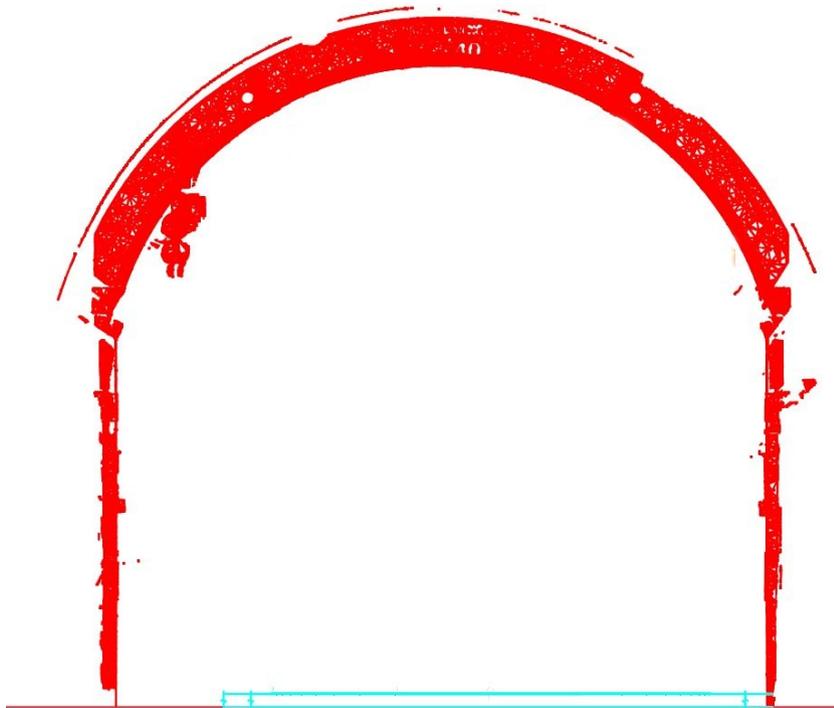
Status of GERDA building, WT & infrastructure



2009	Dec
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2008	Dec
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Status of GERDA building, WT & infrastructure





Where are we now?

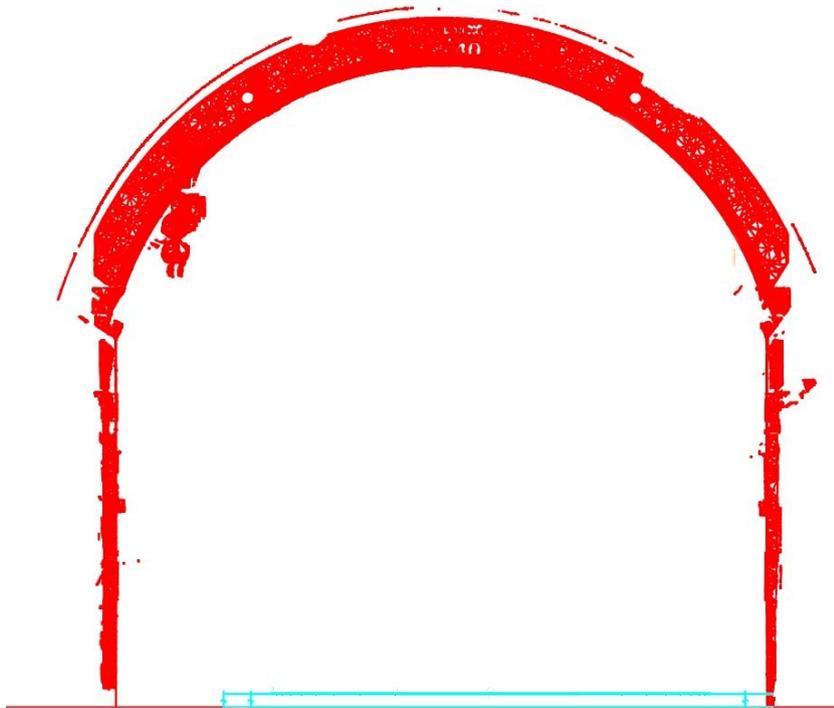
2009	Dec
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2008	Dec
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	Feb
	Jan
	Floor ok

ERRERO SILVANO & C. SNC
CF370FJ
AC 43782

Descrizione	Valore	Unità	Descrizione	Valore	Unità
tipo asse	5	S	G		
luote asse	2		4		
peso a vuoto [t]	5,22		3,80	4,96	
peso ammesso [t]	8,00		8,00	12,00	
peso spec. terreno [Kg/cm²]	6,67		4,67	4,17	
peso totale asse [t]	8,00		8,00	10,00	
				9,00	9,00

Descrizione	Valore	Unità	Descrizione	Valore	Unità
Caricatore	8,700	t	Bevimento	11,990	t
Peso Carico	0,000	t		23,310	t
Portata utile	17,300	t		26,010	t
Peso tot. effett.	28,000	t		18,000	t
Peso max. potenz.	28,000	t		38,000	t
Press. pneumatica	8,0	bar		8,0	bar
Sup. Impronta	600	cm²		450	cm²

Descrizione carico : CRIOSTATO

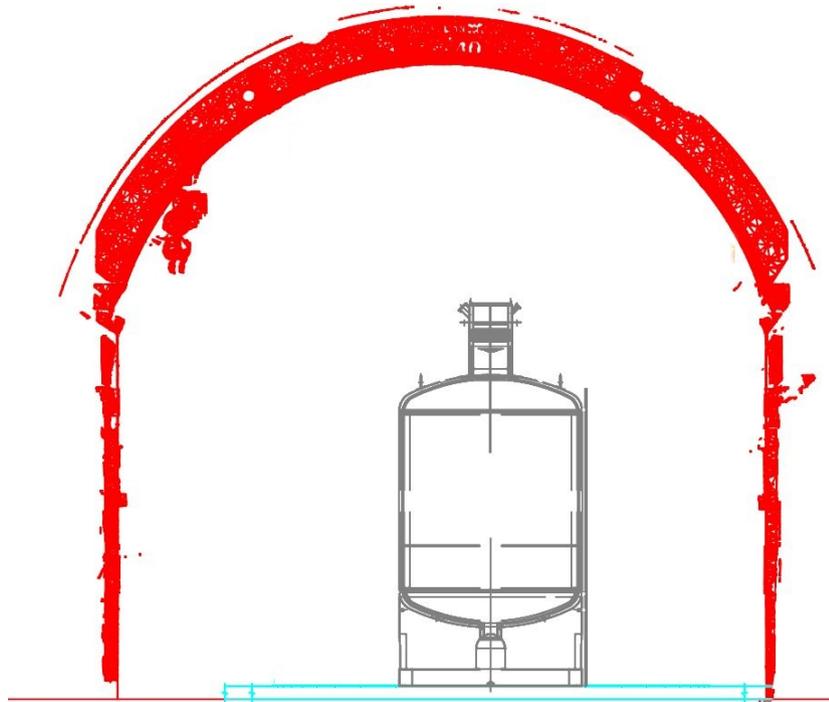


- Floor ready to receive cryostat.
- Cryostat expected for end of February
- Procedures for transportation and placing started

Mounting and commissioning of Cryostat

2009	Dec
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2008	Dec
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Floor ok



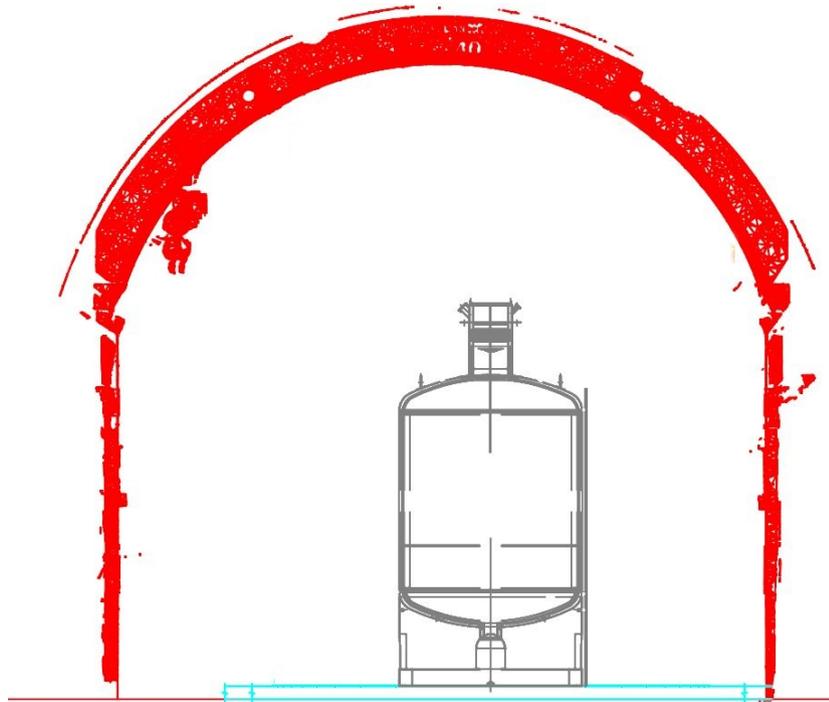
- Acceptance tests
 - Procedures for evaporation test at LNGS started



Mounting and commissioning of Cryostat

2009	Dec
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2008	Dec
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Cryostat
Floor ok



- Acceptance tests
 - Procedures for evaporation test at LNGS started started

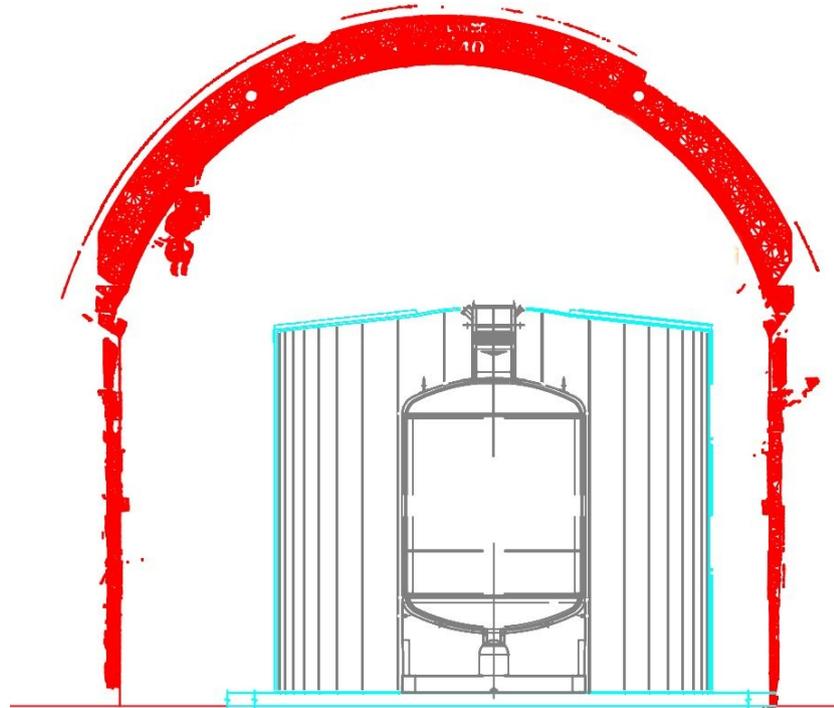
Copper installation

- Gerda must decide **when** Cu is inserted.
- Insertion procedure tested
- Cleaned and vacuum packed Cu-elements stored at LNGS

Construction of Water Tank (Details: Carla)

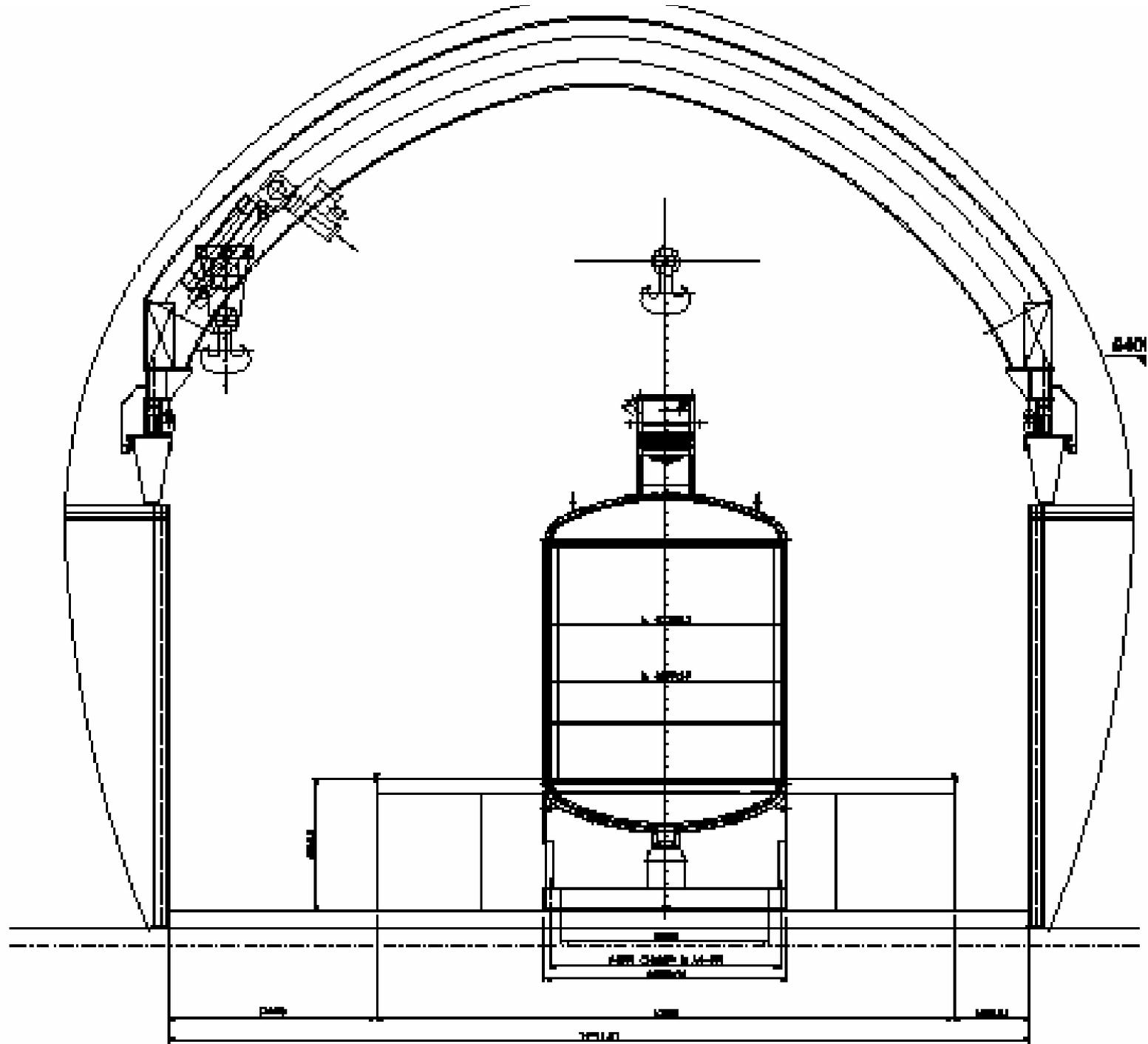
- Mounting procedure
 - Starting from roof which is pulled up as walls are inserted (Details by Carla)

2009	Dec	
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	Jun	
	May	
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	Jan	
2008	Dec	
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	Aug	
	Jul	
	Jun	Water tank
	May	
	Apr	Cryostat
	Mar	
	Feb	Floor ok
	Jan	



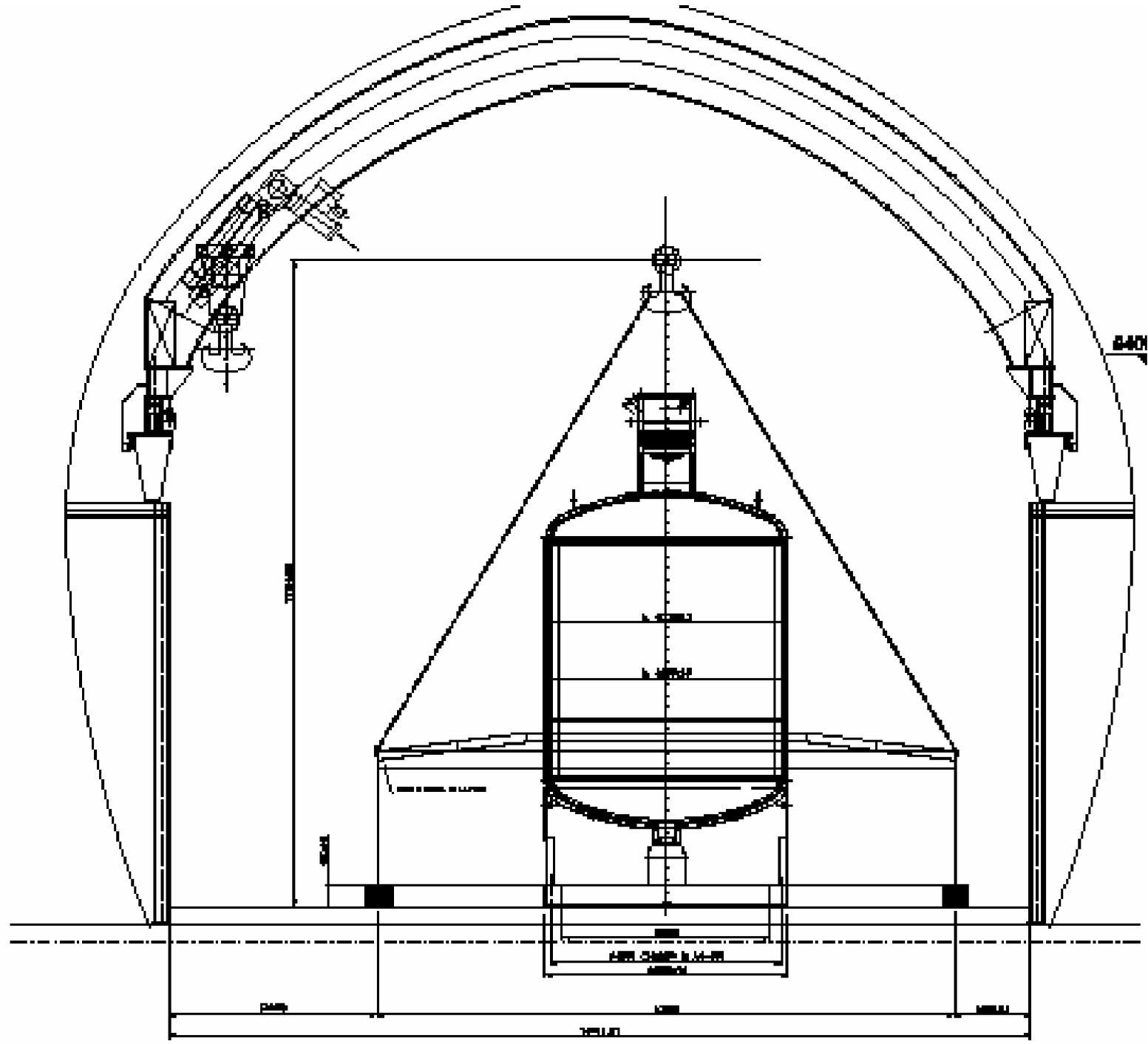


2009	Dec	
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2008	Dec	
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	Aug	
	Jul	
	Jun	Water tank
	May	
	Apr	Cryostat
	Mar	
	Feb	Floor ok
	Jan	



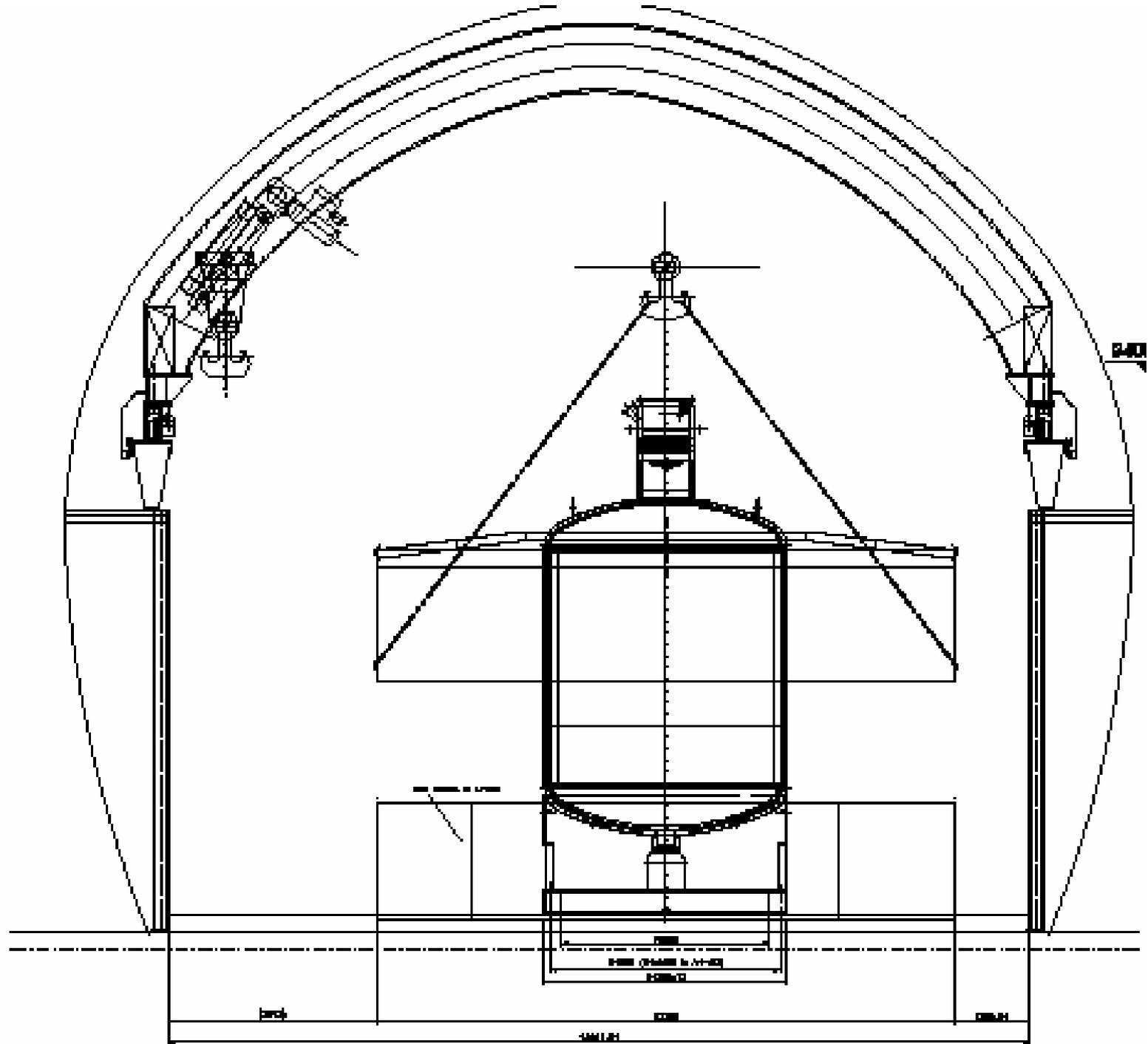


2009	Dec	
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2008	Dec	
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	Jul	
	Jun	Water tank
	May	
	Apr	Cryostat
	Mar	
	Feb	Floor ok
	Jan	



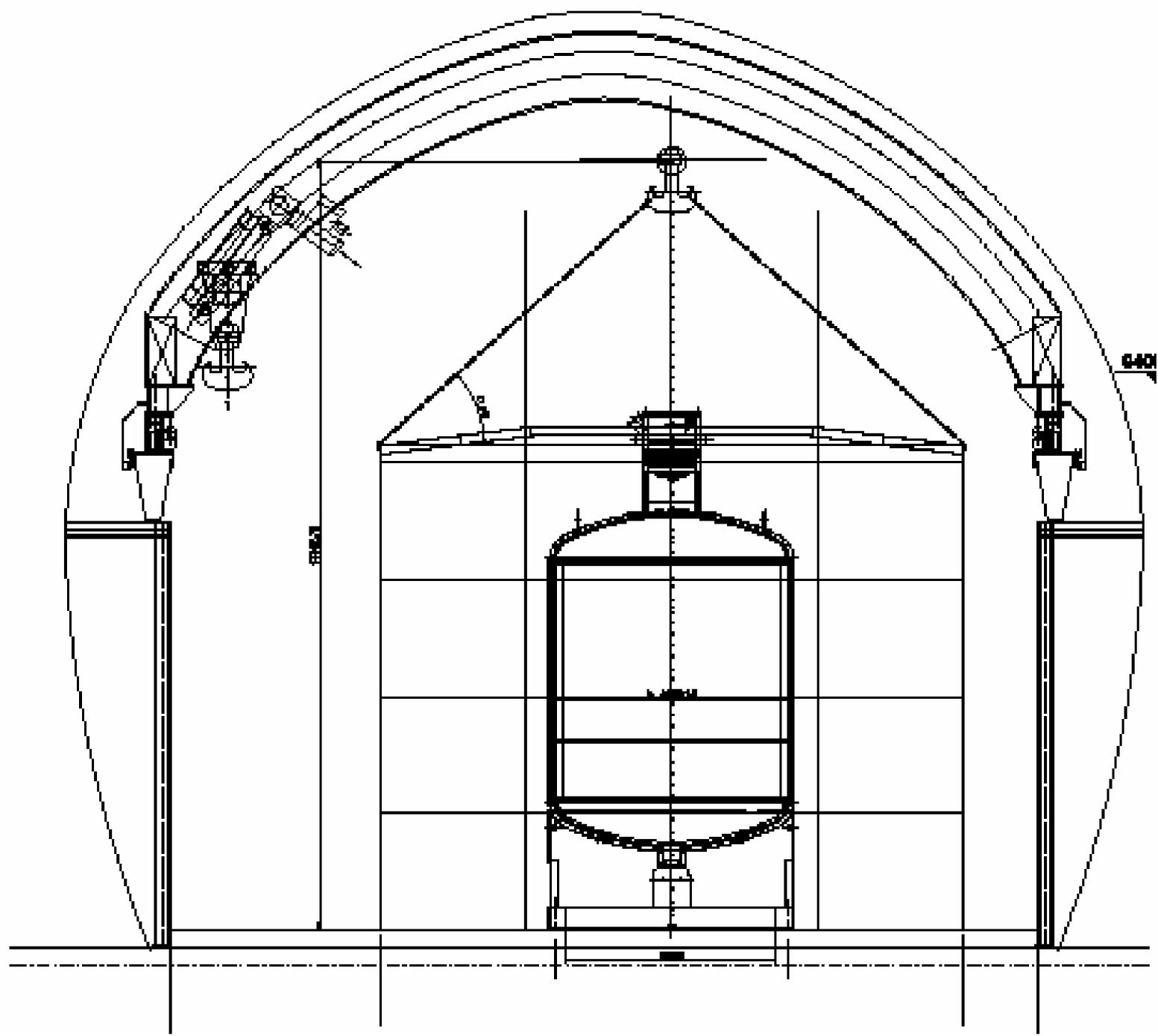


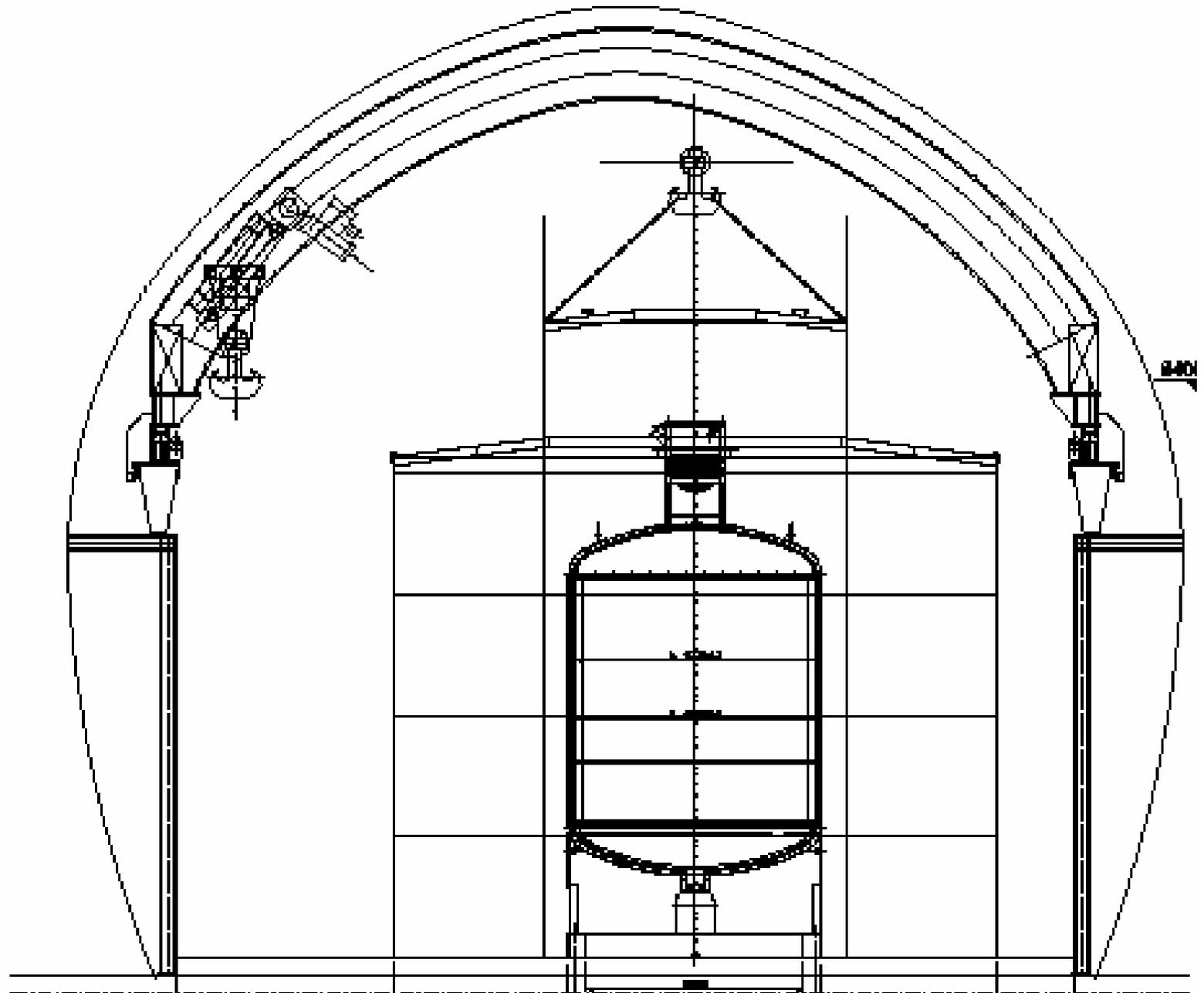
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2008	Dec	
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	Jul	
	Jun	
	May	Water tank
	Apr	Cryostat
	Mar	
	Feb	Floor ok
	Jan	



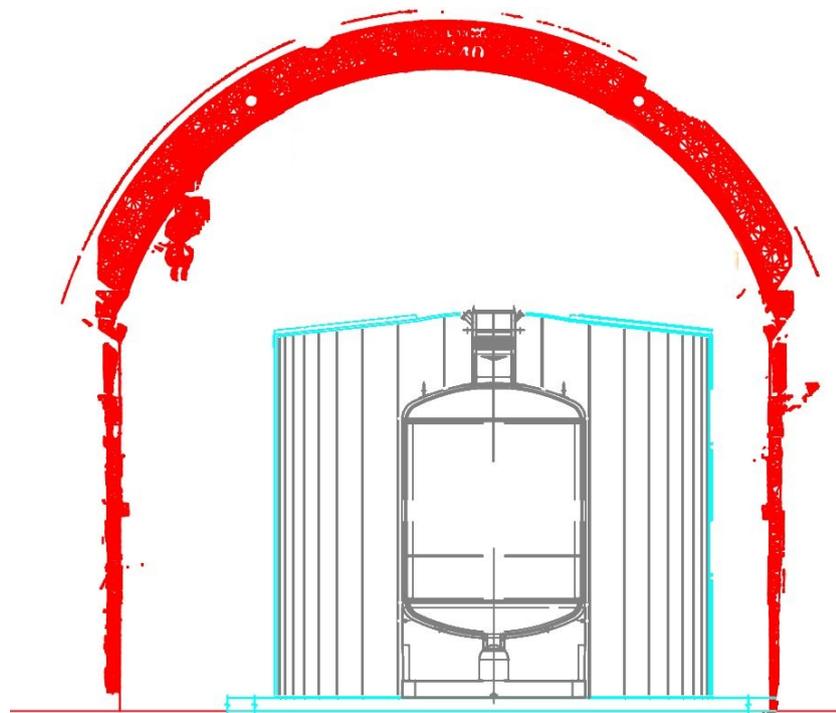
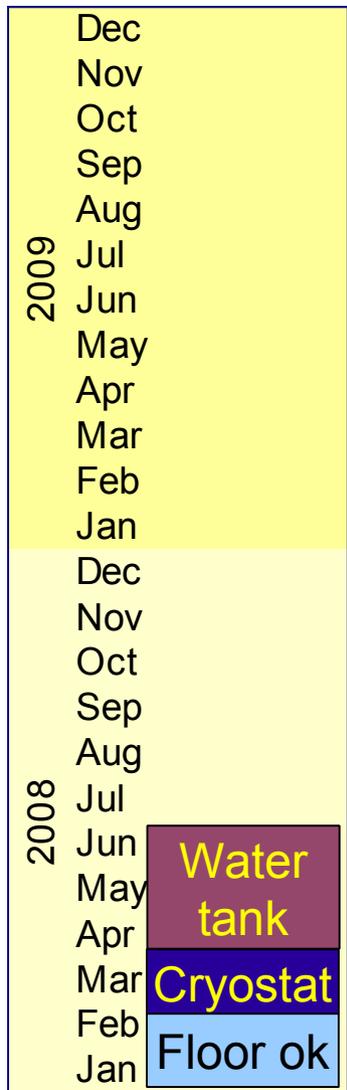


2009	Dec	
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	Aug	
	Jul	
	Jun	Water tank
	May	
	Apr	Cryostat
	Mar	
	Feb	Floor ok
	Jan	





Construction of Water Tank (Details: Carla)



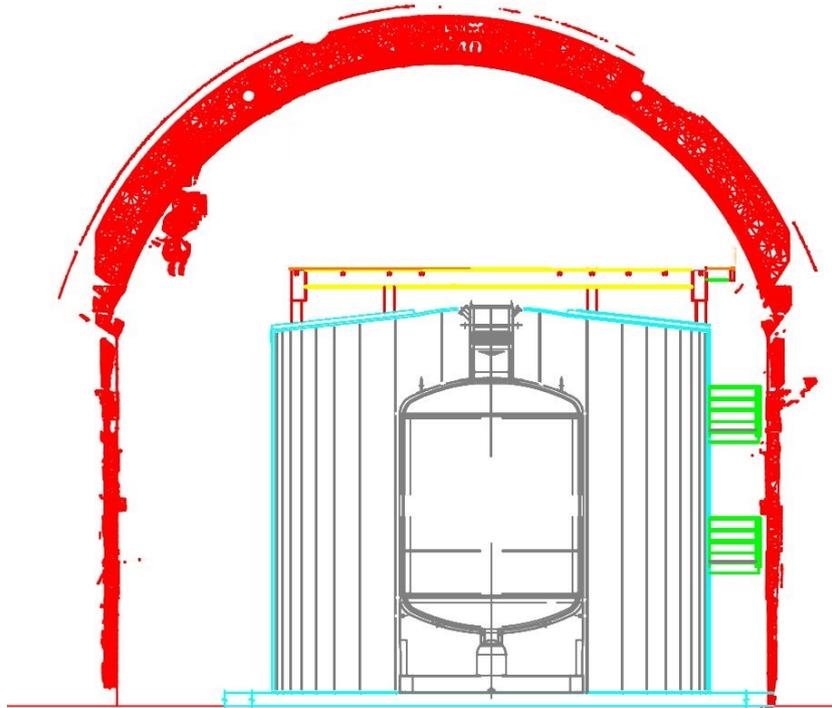
- Mounting procedure
 - Starting from roof which is pulled up as walls are inserted
- Time for construction:
 - 1 month
- Start of construction:
 - Begin of April
- Acceptance test to be organized
- Procedures for final cleaning of WT must be finalized (Details Carla)



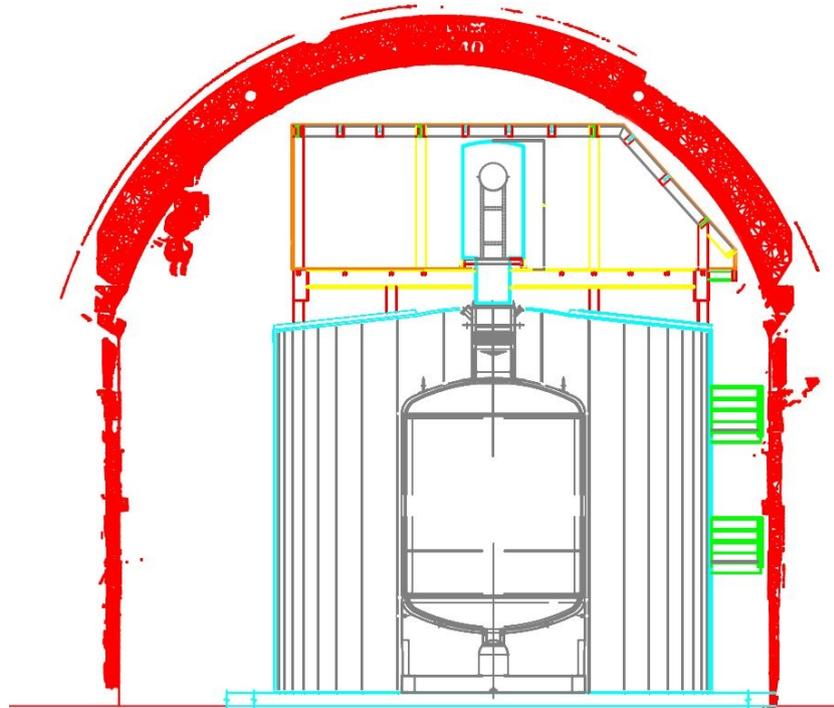
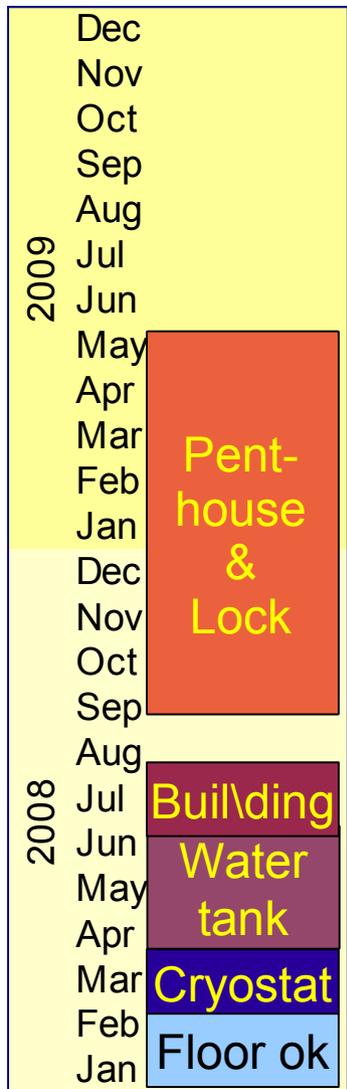
Construction of Building

- Provides building (3 floors plus platform)
- Company selected, Contract signed
- Mounting procedures to be produced

2009	Dec	
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2008	Dec	
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	Sep	
	Aug	
	Jul	Building
	Jun	Water tank
	May	
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	Mar	Cryostat
	Feb	
	Jan	Floor ok



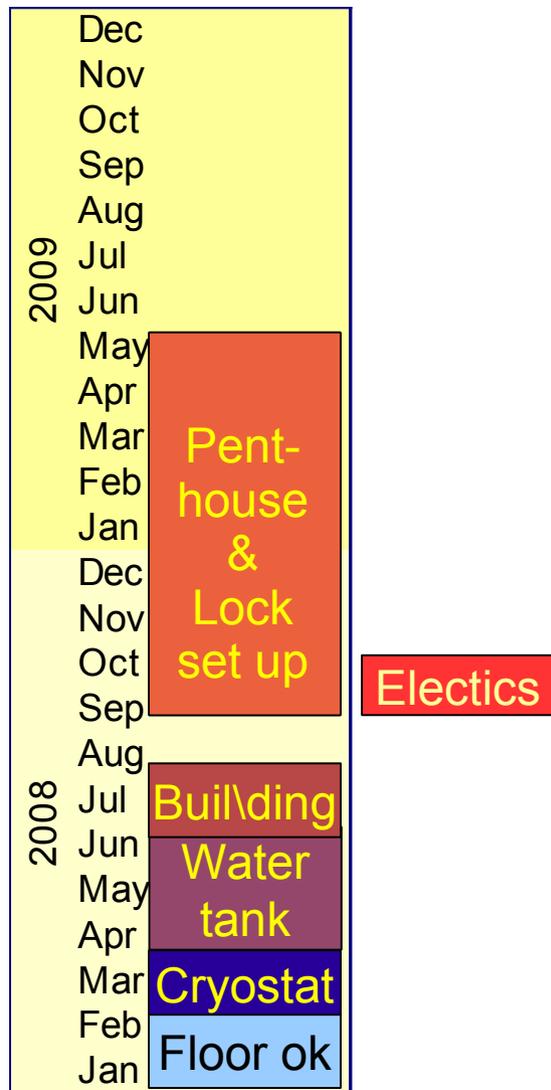
Construction of Penthouse/Lock



- Tendering for clean room in progress (MPI-M)
- construction of lock in progress (MPI-M)
- mounting procedure and details on the load distribution in course of elaboration (LNGS and MPI-M)



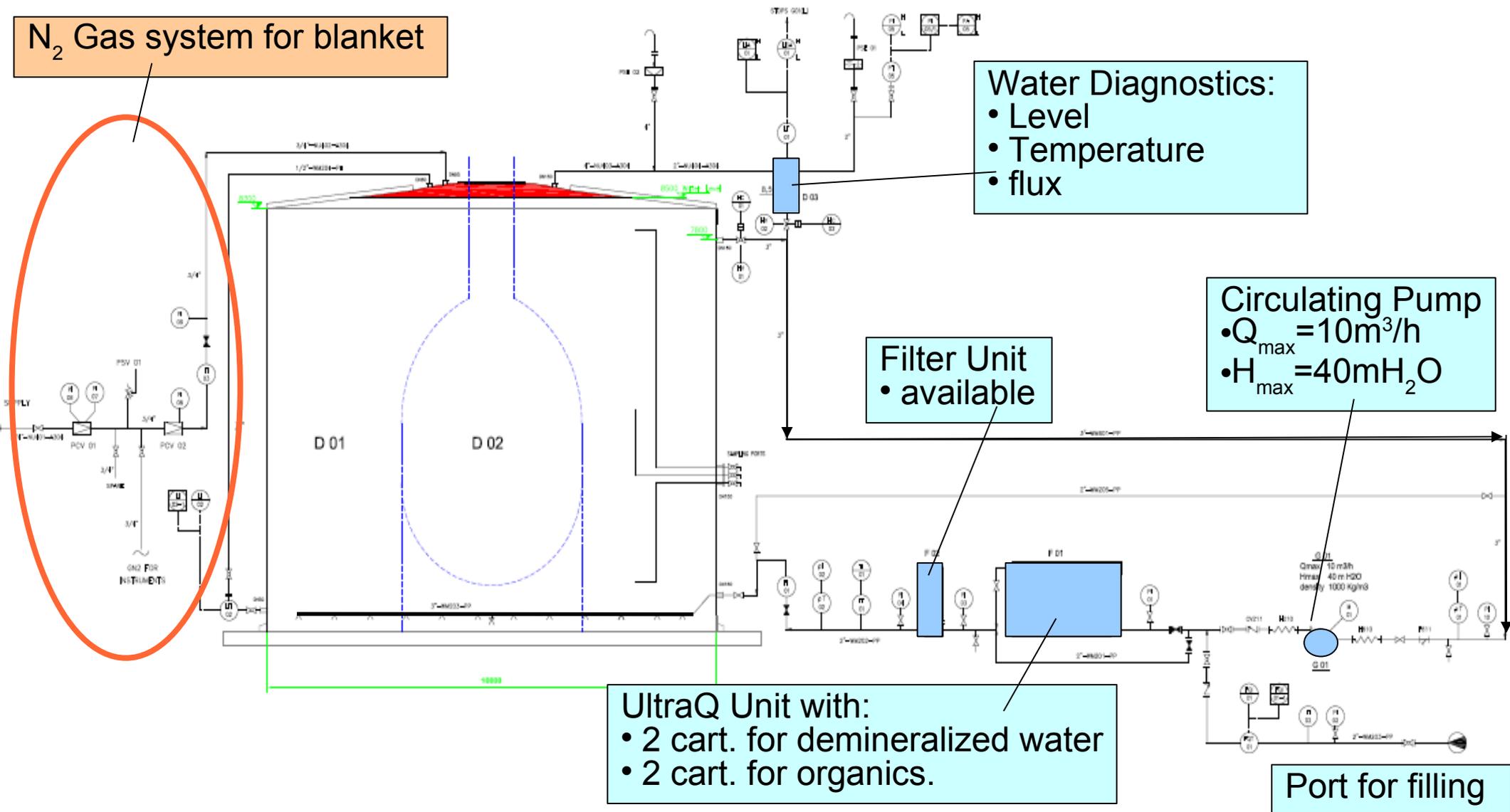
What is still missing?



- Electrical Plants

- project for electrical plants incl. data transmission and phone prepared at LNGS
- Cost estimate: 70k€
- documents ready for tendering
- implementation as soon as building is ready
- money partially available at LNGS, full coverage must be agreed within GERDA

Water recirculation system

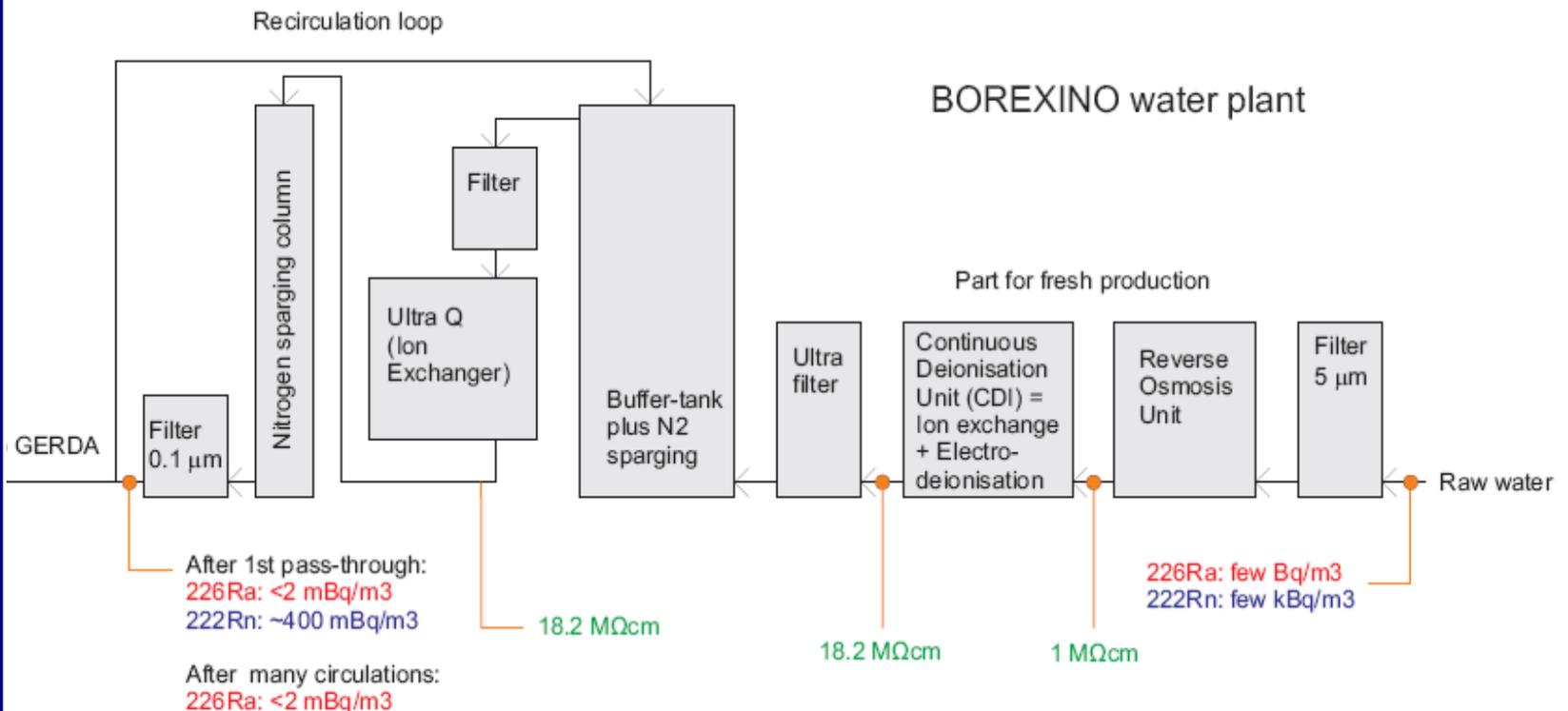




Water filling system

Water from Borexino water plant

- well known working system
- no additional authorizations needed
- located in Hall A
 - connecting tube needed
 - remote operation of plant
- run by Borexino collab.
 - agreement needed for use





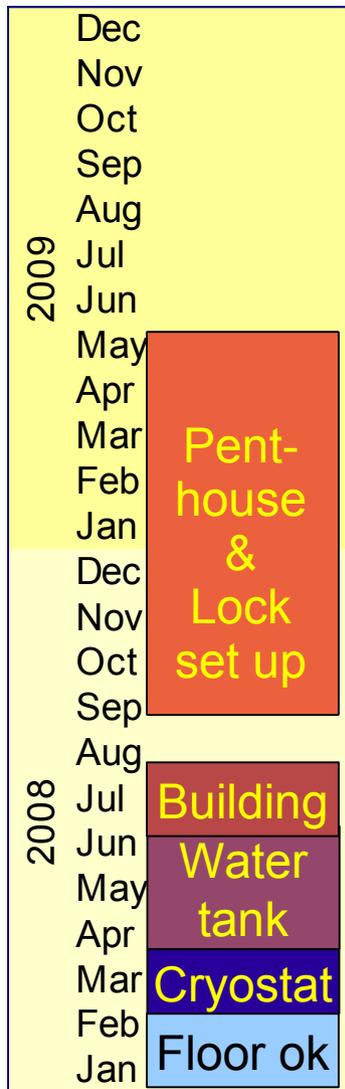
Water filling system

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 - agreement needed for use

On site production by renting a Reverse Osmosis Unit

- relaxed requirements in GERDA do not require full performance of Borexino plant
- full local control of process
- no tubing in TIR tunnel (raw water available in Hall A)
- water discharge in Hall A (authorizations)
- available for limited time (3k€/month)
 - extremely inconvenient for startup of experiment ...





Water filling system

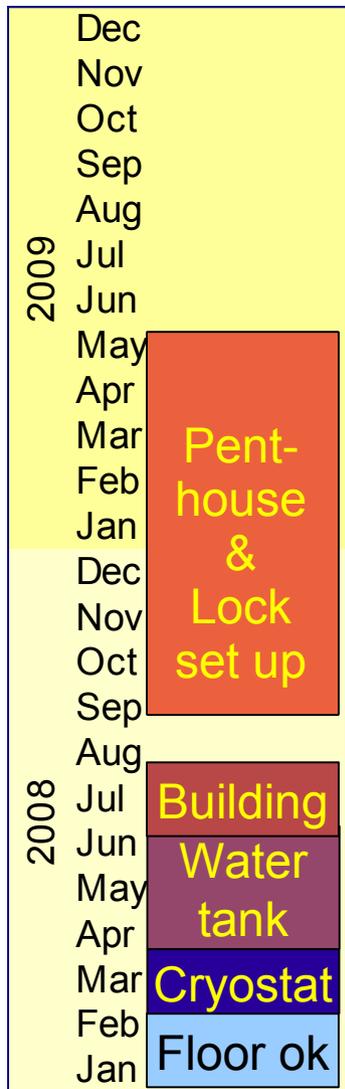
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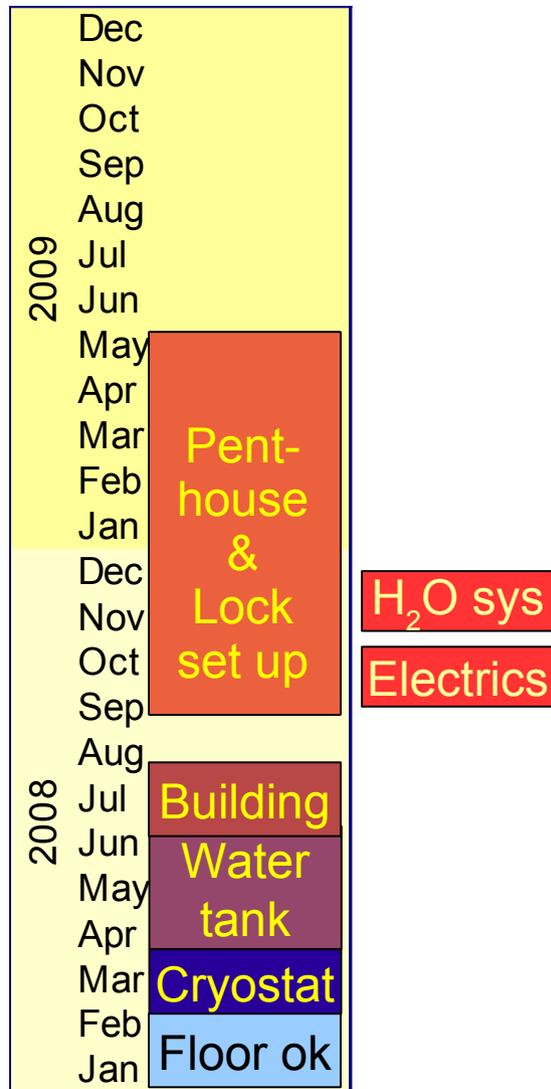
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 - extremely inconvenient for startup of experiment ...

Filling GERDA using Borexino Water Plant is preferred solution!





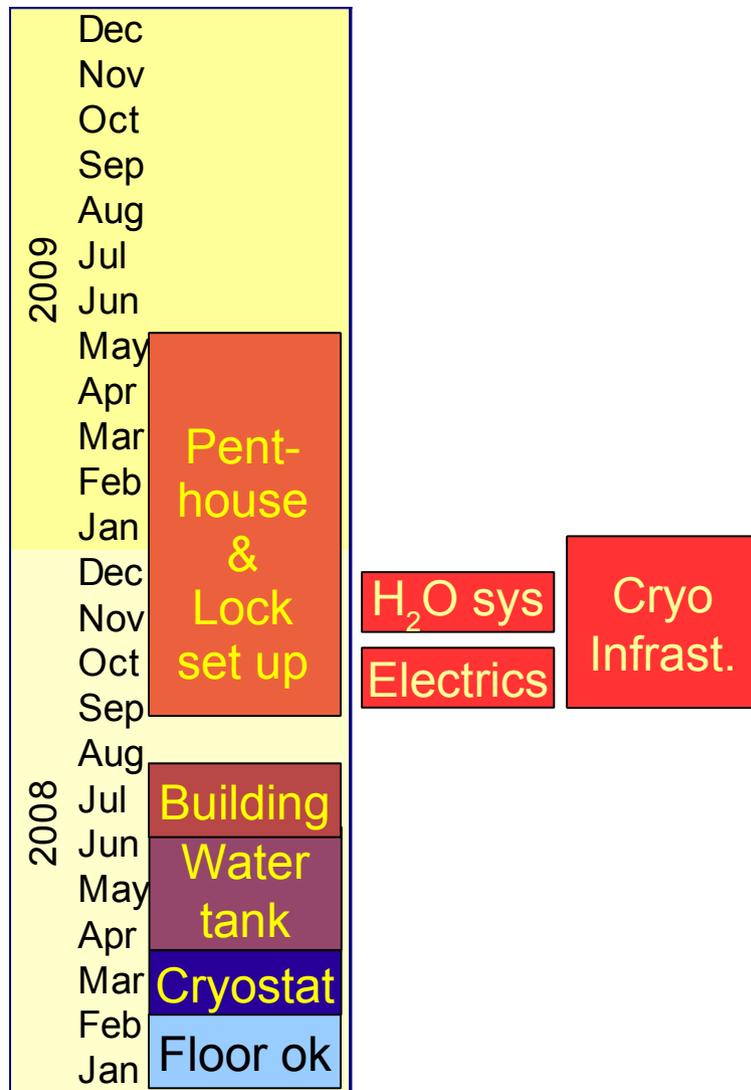
What is still missing?



- Electrical Plants
- Water plant
 - P&I for recirculation system ready
 - Money available at LNGS
 - Documentation for tendering to be prepared by spring 2008.



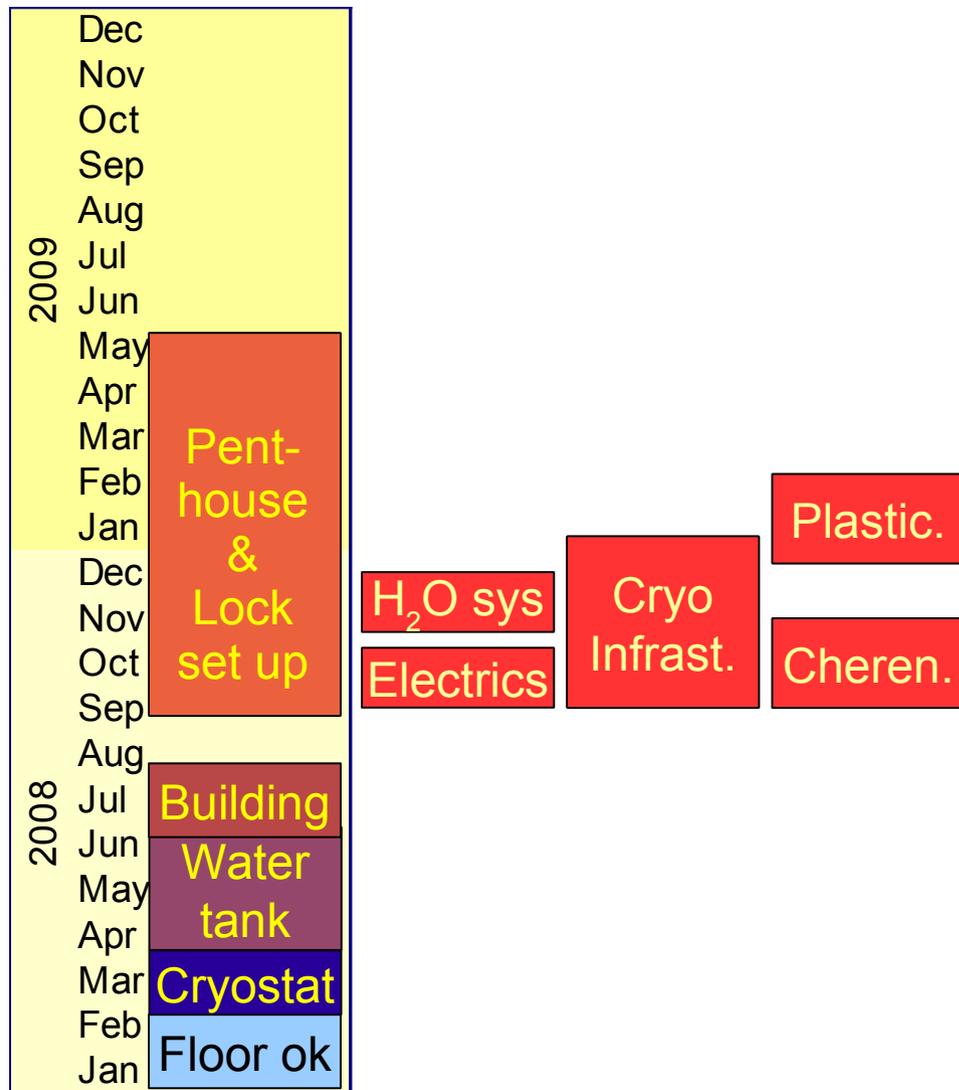
What is still missing?



- Electrical Plants
- Water plant
- Cryogenic Infrastructure
 - Integration of systems of MPI-Hd and MPI-M
 - Details on installation tbc
 - Area for Cryotanks cleared
explosionproof door still in place



What is still missing?



- Electrical Plants
- Water plant
- Cryogenic Infrastructure
- Safety Plants
 - LNGS released clear statement concerning requirements on safety plant
 - may be tendered and implemented together with electrical plants
 - financial coverage tbc.



What is still missing?



- Electrical Plants
- Water plant
- Cryogenic Infrastructure
- Safety Plants
- Heat exchanger
- Muon Veto
- Front end and cables
- DAQ