

Projekt Manager  
Projektbeginn/ende

01.02.2017 - 10.01.2023

Fortschritt  
Vorgänge  
Ressourcen

0%  
95  
0

## Vorgänge

Vorgang	Anfang	Ende	Dauer
Start of Bunker Access	01.11.19	01.11.19	0
End of Bunker Access	01.05.20	01.05.20	0
Access to E02-2	15.10.19	15.10.19	0
Access to E02-1	27.04.19	27.04.19	0
Access to E01	27.04.19	27.04.19	0
TG2	01.02.17	01.02.17	0
TG3	01.02.18	01.02.18	0
TG4	01.10.19	01.10.19	0
TG5	10.01.22	10.01.22	0
BEER	01.03.17	09.01.23	2141
Cold commissioning	01.09.21	07.01.22	129
<i>Testing of an integrity of the whole instrument.</i>			
Hot commissioning	10.01.22	09.01.23	365
Cave	01.03.17	20.09.21	1665
<i>NPI</i>			
RP cave	01.03.18	01.03.18	0
<i>Readiness for cave procurement</i>			
Design	01.03.17	28.02.18	365
RI cave	26.05.20	26.05.20	0
<i>Experiment cave ready to install.</i>			
Cave shielding	01.07.19	24.12.20	543
Procurement&Fabrication	01.07.19	23.08.20	420
<i>120 days of procurement</i>			
<i>10 months for fabrication</i>			
Installation&Integration	27.08.20	24.12.20	120
Cave platform	27.09.19	23.08.20	332
Procurement&Fabrication	27.09.19	23.05.20	240
<i>120 days of procurement</i>			
<i>4 months for manufacturing on site</i>			
Installation&Integration	26.05.20	23.08.20	90

## Vorgänge

Vorgang	Anfang	Ende	Dauer
Guide exchanger	30.10.18	20.09.21	1057
Design	30.10.18	27.04.19	180
Procurement&Fabrication	01.05.19	25.02.20	301
<i>120 of procurement</i>			
<i>6 months of manufacturing</i>			
Installation&Integration	25.12.20	20.09.21	270
Cave equipement	16.09.17	26.12.21	1563
<i>NPI</i>			
<i>Include - sample positioning system, accessories, echangable focussing section, slits, etc. MCA included here.</i>			
RP MCA	02.08.18	02.08.18	0
<i>Readiness for MCA procurement.</i>			
Design	16.09.17	01.08.18	320
Procurement&Fabrication	01.12.19	24.12.20	390
<i>6 months for delivery and 4 months for procurement.</i>			
Installation&Integration	25.12.20	26.12.21	367
Hutch	05.12.17	22.06.21	1296
<i>NPI</i>			
RP hutch	03.07.18	03.07.18	0
<i>Readiness for hutch procurement</i>			
Design	05.12.17	02.07.18	210
Procurement&Fabrication	23.03.19	26.03.20	370
RI hutch	24.01.21	24.01.21	0
<i>Control hutch ready to install.</i>			
Installation&Integration	24.01.21	22.06.21	150
<i>Related to the cave installation and delayed 30 days after cave installation start.</i>			
Optics	01.03.17	14.04.21	1506
Insert	01.03.17	14.03.19	744
<i>HZG</i>			
Insert installed	15.03.19	15.03.19	0
RP insert	01.09.17	01.09.17	0
<i>Readiness for insert procurement</i>			

## Vorgänge

Vorgang	Anfang	Ende	Dauer
Insert-Desing <i>Final design starts as Phase 2. Finish in Q3 2017.</i>	01.03.17	31.08.17	184
Procurement&Fabrication <i>Fabrication is about 130 days - 2-3 week/m for 6 meters. Procurement is same 130 days. Delivery 1 month before installation. Installation Q1 2019.</i>	01.09.17	18.05.18	260
Installation&Integration <i>Installation and allignment - 60 days</i>	14.01.19	14.03.19	60
Transport section <i>NPI</i>	01.05.17	25.11.20	1305
Transport-section design	01.05.17	08.01.18	253
Procurement&Fabrication <i>120 meters of guide - 18 month - 540 days. 120 days of procurement 2 months reserve</i>	11.01.18	31.12.19	720
RI optics <i>Neutron optics outside the bunker ready to install.</i>	01.01.20	01.01.20	0
Installation&Integration <i>330 days of installation and alignment. Expected installation from cave to bunker because E02-1 (closer to E01 - 27/4/2019) will be accessible before E02-2 (15/10/2019).</i>	01.01.20	25.11.20	330
RP optics and shielding <i>Readiness for optics and shielding procurement</i>	01.03.18	01.03.18	0
Bunker section <i>HZG</i>	01.03.17	30.04.20	1157
Bunker-guide Design	01.03.17	07.11.17	252
Procurement&Fabrication <i>22 meters of guide - 2-3 weeks/m - 380 days. 120 days of procurement 3 months reserve + shipement</i>	08.11.17	21.10.19	713
RI optics <i>Neutron optics inside the bunker ready to install.</i>	01.11.19	01.11.19	0
Installation&Integration <i>Installation can't start before 1/11/2019 - crane access to D03</i>	01.11.19	30.04.20	182
Bunker througput	05.01.18	29.09.19	633

## Vorgänge

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Vorgang	Anfang	Ende	Dauer
Design	05.01.18	04.05.18	120
Procurement&Fabrication	04.11.18	31.07.19	270
<i>120 days of procurement 150 days of fabrication</i>			
Installation&Integration	01.08.19	29.09.19	60
<i>Bunker waal will be installed Aug/2019</i>			
Secondary shutter	04.12.17	20.07.20	960
Design	04.12.17	01.06.18	180
Procurement&Manufacturing	19.06.19	29.01.20	225
<i>120 days of procurement 150 days of manufacturing</i>			
Installation&Integration	30.01.20	20.07.20	173
<i>Need to be finished before BOT</i>			
Focusing section	05.11.17	14.04.21	1257
<i>NPI</i>			
Focusing Design	05.11.17	27.02.18	115
Procurement&Fabrication	13.07.19	25.08.20	410
<i>13 meters of focussing guide - 2-3weeks/m - 230 days. 120 days of procurement 2 months reserve</i>			
RI focusing	27.09.20	27.09.20	0
<i>Neutron optics inside experimental cave ready to install.</i>			
Installation&Integration	27.09.20	14.04.21	200
<i>Related to installation end of transport part and can start 30 days before end of transport part.</i>			
Guide shielding	01.03.17	02.07.21	1585
<i>NPI</i>			
Design	01.03.17	28.02.18	365
Procurement&Fabrication	01.03.18	13.07.19	500
<i>Transport not included</i>			
RI shielding	20.11.19	20.11.19	0
<i>Guide shielding ready to install.</i>			
Installation&Integration	21.01.20	02.07.21	529
<i>Expecting the installation in line with the guide. Start of installation with 30 days delay.</i>			

## Vorgänge

Vorgang	Anfang	Ende	Dauer
Choppers <i>HZG</i>	01.03.17	25.01.21	1427
Choppers inside the bunker	01.03.17	30.04.20	1157
RP choppers <i>Readiness for choppers procurement</i>	07.11.17	07.11.17	0
Design	01.03.17	06.11.17	251
Procurement&Fabrication <i>120 days of procurement 4 month per chopper * 4 choppers = 18 months Plus 30 days reserve.</i>	16.12.17	05.11.19	690
RI choppers <i>Choppers inside the bunker ready to install-</i>	03.12.19	03.12.19	0
Installation&Integration <i>Need to be coordinated with the bunker guide system. Expected start 20 days after start of guide installation. Need to be finished before May/2020</i>	03.12.19	30.04.20	150
Chopper after the bunker	04.07.17	25.01.21	1302
Design	04.07.17	06.02.18	218
Procurement&Fabrication <i>120 days of procurement 3 month per chopper</i>	03.12.19	29.07.20	240
RI choppers <i>Chopper outside the bunker ready to install.</i>	30.07.20	30.07.20	0
Installation&Integration <i>Installation coordinated with the transport guide -&gt; delay in installation 3 month after guide installation start.</i>	30.07.20	25.01.21	180
Detectors <i>HZG</i>	01.03.17	28.09.21	1673
RP detectors <i>Readiness for detectors procurement</i>	02.08.18	02.08.18	0
Design	01.03.17	01.08.18	519
Procurement&Fabrication <i>120 days of procurement 6 months per detector (detector + portal + colimators) * 2 detectors = 12 month</i>	19.08.19	30.12.20	500

## Vorgänge

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Vorgang	Anfang	Ende	Dauer
RI detectors <i>Detectors ready to install.</i>	02.01.21	02.01.21	0
Installation&Integration <i>Related with cave installation finished. Start 20 days later that the cave is finished.</i>	02.01.21	28.09.21	270
MCA	01.03.17	13.08.21	1627
Design	01.03.17	01.05.18	427
Procurement&Fabrication	01.10.18	05.12.19	431
Installation&Integration	06.12.19	13.08.21	617

## Gantt-Diagramm





# Ressourcendiagramm

