

N°	Nom de la tâche	Durée	Début	Fin	2013									2014						2015												
					Jan	é	a	Avr	a	Jui	Jul	o	Sep	Oct	o	Dé	Jan	Fé	a	Avr	a	Jui	Jul	o	Sep	Oct	o	Dé	Jan	Fé	a	Avr
1	✓ CONTRACT REVIEW	5 j	Lun 04/10/10	Ven 08/10/10	[Timeline visualization showing a thick black bar from Oct 2010 to Oct 2011]																											
2	✓ Contract award (D-1)	0 j	Lun 04/10/10	Lun 04/10/10	[Timeline visualization]																											
3	✓ Internal contract review	5 j	Lun 04/10/10	Ven 08/10/10	[Timeline visualization]																											
4	DESIGN AND ENGINEERING	937 j	Lun 01/11/10	Jeu 17/07/14	[Timeline visualization showing a thick black bar from Nov 2010 to Jul 2014]																											
5	✓ PDR	20 j	Lun 01/11/10	Ven 26/11/10	[Timeline visualization]																											
6	✓ PDR document	20 j	Lun 01/11/10	Ven 26/11/10	[Timeline visualization]																											
7	✓ Review meeting (D2)	0 j	Ven 12/11/10	Ven 12/11/10	[Timeline visualization]																											
8	Detailed design	624 j	Lun 15/11/10	Ven 26/04/13	[Timeline visualization showing a thick black bar from Nov 2010 to Apr 2013]																											
9	✓ Intermediate design	257 j	Lun 15/11/10	Mar 08/11/11	[Timeline visualization]																											
10	✓ Conductor definition	0 j	Lun 17/01/11	Lun 17/01/11	[Timeline visualization]																											
11	✓ Conductor design modification	135 j	Mer 04/05/11	Mar 08/11/11	[Timeline visualization]																											
12	✓ Magnetic analysis (D-7)	158 j	Ven 01/04/11	Mar 08/11/11	[Timeline visualization]																											
13	✓ Conductor stress analysis 2D	70 j	Lun 27/12/10	Ven 01/04/11	[Timeline visualization]																											
14	✓ Quench analysis(D-9)	100 j	Lun 15/11/10	Ven 01/04/11	[Timeline visualization]																											
15	✓ 60% drawing package (D-14)	150 j	Lun 11/04/11	Ven 04/11/11	[Timeline visualization]																											
16	✓ Intermediate Design Report (D-14)	150 j	Lun 11/04/11	Ven 04/11/11	[Timeline visualization]																											
17	✓ Intermediate Design Review (D-3)	0 j	Mar 08/11/11	Mar 08/11/11	[Timeline visualization]																											
18	Final design	367 j	Mer 09/11/11	Ven 26/04/13	[Timeline visualization showing a thick black bar from Nov 2011 to Apr 2013]																											
19	✓ Final stress analysis (D-8)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
20	✓ Pressure vessel analysis (C-1)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
21	✓ Pressure vessel weld design (C-4)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
22	✓ Quench protection analysis (D-10)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
23	✓ DC systems analysis (D-12)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
24	✓ Instrumentation (D-13)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
25	✓ 100% drawing package (D-15)	165 j	Mer 09/11/11	Ven 06/07/12	[Timeline visualization]																											
26	Final design Review (D-4)	0 j	Ven 26/04/13	Ven 26/04/13	[Timeline visualization showing a diamond marker at 26/04/13]																											
27	Tooling design	454 j	Lun 14/11/11	Mar 10/09/13	[Timeline visualization showing a thick black bar from Nov 2011 to Sep 2013]																											
28	✓ Coil toolings 1st step	85 j	Lun 14/11/11	Ven 09/03/12	[Timeline visualization]																											
29	✓ Coil toolings 2nd step	30 j	Lun 12/03/12	Lun 23/04/12	[Timeline visualization]																											
30	Crosytat toolings	150 j	Ven 01/02/13	Mar 10/09/13	[Timeline visualization showing a blue hatched bar from Feb 2013 to Sep 2013]																											
31	Assembly toolings	80 j	Ven 01/03/13	Ven 28/06/13	[Timeline visualization showing a blue hatched bar from Mar 2013 to Jun 2013]																											
32	Control equipment	80 j	Ven 01/03/13	Ven 28/06/13	[Timeline visualization showing a blue hatched bar from Mar 2013 to Jun 2013]																											
33	Manufacturing plan	440 j	Mar 09/10/12	Jeu 17/07/14	[Timeline visualization showing a thick black bar from Oct 2012 to Jul 2014]																											

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34	QA/QC plan complete (D-5)	440 j	Mar 09/10/12	Jeu 17/07/14	[Gantt bar from Mar 09/10/12 to Jul 17/07/14]																													
35	Magnet traveller complete (D-6)	60 j	Ven 18/04/14	Jeu 17/07/14	[Gantt bar from Apr 18/04/14 to Jul 17/07/14]																													
36	Weld qualification (C-5)	120 j	Ven 15/03/13	Mar 10/09/13	[Gantt bar from Mar 15/03/13 to Sep 10/09/13]																													
37	Welders qualification (C-6)	120 j	Ven 15/03/13	Mar 10/09/13	[Gantt bar from Mar 15/03/13 to Sep 10/09/13]																													
38	SUPPLY	801 j	Lun 04/10/10	Lun 02/12/13	[Thick black Gantt bar from Oct 04/10/10 to Dec 02/12/13]																													
39	GFE/GFM	514 j	Lun 04/10/10	Mer 03/10/12	[Thick black Gantt bar from Oct 04/10/10 to Oct 03/10/12]																													
40	SC wire	140 j	Mar 08/11/11	Jeu 31/05/12	[Thick black Gantt bar from Mar 08/11/11 to May 31/05/12]																													
41	Copper stabilizer production run by FMM for acceptance	20 j	Mar 08/11/11	Lun 05/12/11	[Gantt bar from Mar 08/11/11 to Dec 05/12/11]																													
42	Conductor soldering production run by AES for acceptance	20 j	Mar 06/12/11	Lun 02/01/12	[Gantt bar from Mar 06/12/11 to Jan 02/01/12]																													
43	Test and acceptance of conductor (F-1)	20 j	Mar 03/01/12	Lun 30/01/12	[Gantt bar from Mar 03/01/12 to Jan 30/01/12]																													
44	Copper stabilizer full production by FMM	30 j	Mar 31/01/12	Lun 12/03/12	[Gantt bar from Mar 31/01/12 to Feb 12/03/12]																													
45	Conductor soldering full production by AES	20 j	Mar 28/02/12	Lun 26/03/12	[Gantt bar from Mar 28/02/12 to Feb 26/03/12]																													
46	Conductor shipment	40 j	Mar 27/03/12	Jeu 31/05/12	[Gantt bar from Mar 27/03/12 to May 31/05/12]																													
47	Cryo Control Reservoir (F-3)	514 j	Lun 04/10/10	Mer 03/10/12	[Gantt bar from Oct 04/10/10 to Oct 03/10/12]																													
48	Power supply/PLC	500 j	Lun 04/10/10	Jeu 13/09/12	[Gantt bar from Oct 04/10/10 to Sep 13/09/12]																													
49	Components	119 j	Lun 29/04/13	Lun 21/10/13	[Thick black Gantt bar from Apr 29/04/13 to Oct 21/10/13]																													
50	Cold mass components (F-5)	80 j	Lun 29/04/13	Mar 27/08/13	[Gantt bar from Apr 29/04/13 to Aug 27/08/13]																													
51	Components for He vessel	80 j	Lun 29/04/13	Mar 27/08/13	[Gantt bar from Apr 29/04/13 to Aug 27/08/13]																													
52	Components for Radiation screen	100 j	Lun 29/04/13	Mar 24/09/13	[Gantt bar from Apr 29/04/13 to Sep 24/09/13]																													
53	Components for Outer vessel	119 j	Lun 29/04/13	Lun 21/10/13	[Gantt bar from Apr 29/04/13 to Oct 21/10/13]																													
54	Pressure vessel material certifications (C-2)	20 j	Lun 29/04/13	Ven 31/05/13	[Gantt bar from Apr 29/04/13 to May 31/05/13]																													
55	Vessel components material traceability (C-3)	20 j	Lun 29/04/13	Ven 31/05/13	[Gantt bar from Apr 29/04/13 to May 31/05/13]																													
56	Cryostat components (F-11)	119 j	Lun 29/04/13	Lun 21/10/13	[Gantt bar from Apr 29/04/13 to Oct 21/10/13]																													
57	Toolings	426 j	Lun 12/03/12	Lun 02/12/13	[Thick black Gantt bar from Mar 12/03/12 to Dec 02/12/13]																													
58	Coil Toolings (F-4) 1st step	20 j	Lun 12/03/12	Ven 06/04/12	[Gantt bar from Mar 12/03/12 to Apr 06/04/12]																													
59	Coil Toolings (F-4) 2nd step	26 j	Mar 24/04/12	Jeu 07/06/12	[Gantt bar from Mar 24/04/12 to Jun 07/06/12]																													
60	Collaring Toolings	60 j	Lun 29/04/13	Ven 26/07/13	[Gantt bar from Apr 29/04/13 to Jul 26/07/13]																													
61	Cryostat toolings	57 j	Mer 11/09/13	Lun 02/12/13	[Gantt bar from Sep 11/09/13 to Dec 02/12/13]																													
62	Assembly toolings	60 j	Lun 01/07/13	Mar 24/09/13	[Gantt bar from Jul 01/07/13 to Sep 24/09/13]																													
63	MANUFACTURING	367 j	Lun 28/01/13	Jeu 17/07/14	[Thick black Gantt bar from Jan 28/01/13 to Jul 17/07/14]																													
64	PREPARATION	104 j	Lun 28/01/13	Ven 28/06/13	[Thick black Gantt bar from Jan 28/01/13 to Jun 28/06/13]																													
65	Meeting at Sigmaphi	2 j	Lun 28/01/13	Mar 29/01/13	[Gantt bar from Jan 28/01/13 to Mar 29/01/13]																													
66	Finalize technical ammendment	8 j	Mer 30/01/13	Ven 08/02/13	[Gantt bar from Jan 30/01/13 to Feb 08/02/13]																													

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98	FINAL TESTS AT SIGMAPHI	111 j	Ven 18/07/14	Mar 23/12/14																																				
99	Tests (F-19)	20 j	Ven 18/07/14	Jeu 14/08/14																																				
100	Magnetic measurement at warm (F-19)	20 j	Lun 18/08/14	Ven 12/09/14																																				
101	Cold mass fiducialization (F-10)	20 j	Lun 18/08/14	Ven 12/09/14																																				
102	Customer approval	10 j	Lun 15/09/14	Ven 26/09/14																																				
103	CONTINGENCY	61 j	Lun 29/09/14	Mar 23/12/14																																				
104	DELIVERY	30 j	Mer 24/12/14	Lun 09/02/15																																				
105	Shipment preparation (F-20)	10 j	Mer 24/12/14	Lun 12/01/15																																				
106	Transportation	20 j	Mar 13/01/15	Lun 09/02/15																																				
107	Magnet delivered (D and AT-1)	0 j	Lun 09/02/15	Lun 09/02/15																																				
108	ACCEPTANCE TESTS	191 j	Lun 29/09/14	Mer 01/07/15																																				
109	Magnet arrival tests (D and AT-2)	20 j	Mar 10/02/15	Lun 09/03/15																																				
110	Magnet installed (D and AT-3)	40 j	Mar 10/03/15	Mar 05/05/15																																				
111	CCR installation, junction soldering, welding (F-14)	20 j	Mer 06/05/15	Mer 03/06/15																																				
112	Magnet system installed (D and AT-4)	40 j	Mar 10/02/15	Lun 06/04/15																																				
113	Safety and failure effect analysis (D and AT-5)	20 j	Lun 29/09/14	Ven 24/10/14																																				
114	Safety review at JLAB (D and AT-6)	20 j	Lun 29/09/14	Ven 24/10/14																																				
115	Acceptance test plan (D and AT-7)	20 j	Lun 29/09/14	Ven 24/10/14																																				
116	Acceptance test readiness review (D and AT-8)	20 j	Lun 29/09/14	Ven 24/10/14																																				
117	Acceptance test (D and AT-9)	20 j	Mar 07/04/15	Mar 05/05/15																																				
118	Conditionnal acceptance (D and AT-10)	20 j	Mer 06/05/15	Mer 03/06/15																																				
119	Resolution of "punch list" (D and AT-11)	20 j	Jeu 04/06/15	Mer 01/07/15																																				
120	Magnet acceptance (D and AT-12)	0 j	Mer 01/07/15	Mer 01/07/15																																				
121	DOCUMENTATION	20 j	Lun 29/09/14	Ven 24/10/14																																				
122	Final drawings D-16)	20 j	Lun 29/09/14	Ven 24/10/14																																				
123	Weld inspection reports (C-7)	20 j	Lun 29/09/14	Ven 24/10/14																																				
124	Vessel inspection report (C-8)	20 j	Lun 29/09/14	Ven 24/10/14																																				
125	Vessel pressure test report (C-9)	20 j	Lun 29/09/14	Ven 24/10/14																																				