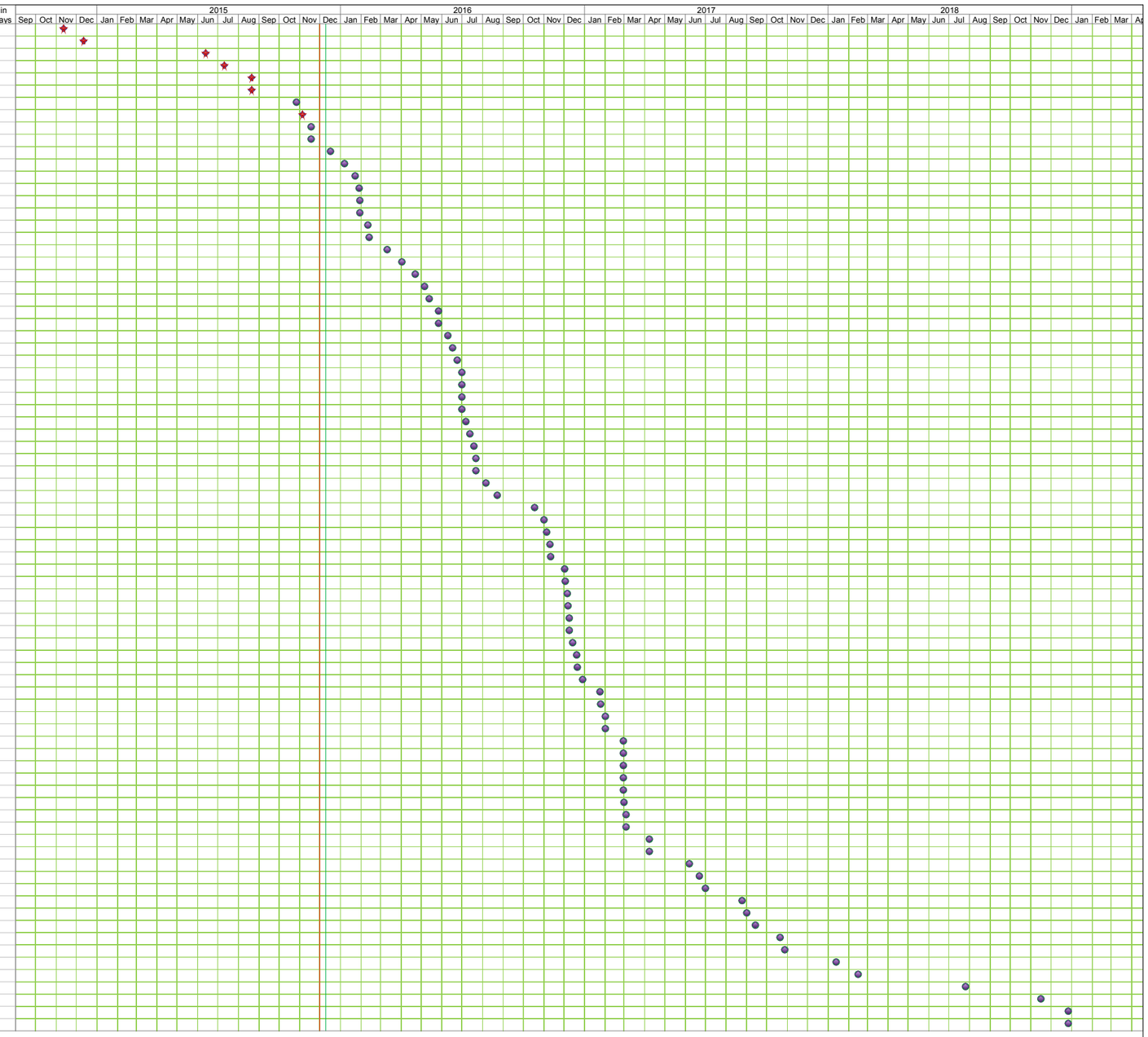ID	WBS	Task Name	Schedule Finish Date	% Complete	Responsible Institution	Baseline Finish Date	Variance in Working Days
1	40SBN/2.2.1.1	(T5) - [Complete]- Review Conceptual Design Report (SBN-ND-PDD)(I)	11/11/14	100%	FN	11/11/14	0
2	40SBN/2.2.1.3	(T5) - [Complete] - Sign-off detector and installation requirements (SBN-ND-PDD)(I)	12/11/14	100%	FN	12/11/14	0
3	40SBN/2.9.1.6	(T4) - [Complete] - Cryostat Support Structure Peer Review (SBN-ND-C)(PD)	6/12/15	100%	FN	6/12/15	0
4	40SBN/2.5.2.3.10	(T5) - [Complete] - Module #0 Ready for Replication (BERN - Labor) (SBN-ND-LCC)(TC)(P)	7/10/15	100%	BRN	7/10/15	0
5	40SBN/2.3.1.1.9	(T5) - [Complete] - Completion of Engineering Review and Delivery Written Engineering Design Requirement (SBN-ND-TPCC)(P	8/20/15	100%	FN	8/20/15	0
6	40SBN/2.3.1.3.4	(T4) - [Complete] - Completion of TPC Preliminary Design (SBN-ND-TPCC)(PD)(I)	8/20/15	100%	FN	8/20/15	0
7	40SBN/2.9.1.16	(T4) - [Complete] - Peer Review of Membrane Cryostat and Top Cap Design (SBN-ND-C)(PD)	10/26/15	0%	FN	10/26/15	0
8	40SBN/2.2.1.12	(T4) - [Complete] - Complete Preliminary Design (SBN-ND-PDD)(I)	11/4/15	100%	FN	11/4/15	0
9	40SBN/2.9.1.18	(T3) - [Complete] - Director's Review for Preliminary Design (SBN-ND-C)(PD)	11/17/15	0%	FN	11/17/15	0
10	40SBN/2.9.3.1	(T4) - [Complete] Contract to Procure Cryostat Support Structure Issued (SBN-ND-C)(P)	11/17/15	0%	FN	11/17/15	0
11	40SBN/2.3.4.4	(T5) - [Complete] - Completion of Geometry Board Production Review - (US) (SBN-ND-TPCC)(GB)	12/16/15	0%	FN	12/16/15	0
12	40SBN/2.9.2.3	(T4) - [Complete] Cryostat Contract to GTT for Detailed Design and Procurement Issued (SBN-ND-C)(FD)	1/6/16	0%	FN	1/6/16	0
13	40SBN/2.3.4.6	(T4) - [Complete] - Completion of Geometry Board Procurement and Delivery - (US) (SBN-ND-TPCC)(GB)	1/22/16	0%	FN	1/22/16	0
14	40SBN/2.6.1.1.5	(T4) - [Complete] - FE ASIC and ADC ASIC Design Ready for 1st Prototype Submission (SBN-ND-TPCE)(CE)(PD)	1/28/16	0%	FN	1/28/16	0
15	40SBN/2.5.2.2.14	(T4) - [Complete] - CRT Ready for Production (SBN-ND-LCC)(TC)(PD)	1/29/16	0%	BRN	1/29/16	0
16	40SBN/2.5.2.3.12	(T4) - [Complete] - Completion of CST Design Technical Design Review (SBN-ND-LCC)(TC)(P)	1/29/16	0%	BRN	1/29/16	0
17	40SBN/2.5.1.2.13	(T5) - [Complete] - Laser System Component Ready for Assembly (SBN-ND-LCC)(S)(F)	2/10/16	0%	BRN	2/10/16	0
18	40SBN/2.3.2.12	(T4) - [Complete] - Completion of Production Readiness Review (SBN-ND-TPCC)(FD)	2/12/16	0%	FN	2/12/16	0
19	40SBN/2.3.5.5	(T4) - [Complete] - Completion of UK APA Wire Winding Readiness Review - (UK) (SBN-ND-TPCC)(AC)	3/10/16	0%	FN	3/10/16	0
20	40SBN/2.7.1.17	(T5) - [Complete] - Completion of Readout and DAQ Integration (SBN-ND-DAQ)(RI)	4/1/16	0%	FN	4/1/16	0
21	40SBN/2.6.1.1.30	(T4) - [Complete] - Cold Electronics Final Design Review (SBN-ND-TPCE)(CE)(PD)	4/21/16	0%	FN	4/21/16	0
22	40SBN/2.3.3.4	(T5) - [Complete] - Completion of Review APA Frame QA Testing - (UK) (SBN-ND-TPCC)(FC)	5/5/16	0%	UK	5/5/16	0
23	40SBN/2.9.2.13	(T4) - [Complete] Peer review of membrane Cryostat Design by FTT and Cryostat Top Design (SBN-ND-C)(FD)	5/12/16	0%	FN	5/12/16	0
24	40SBN/2.9.2.15	(T3) - [Complete] Director's Review for Final Design (SBN-ND-C)(FD)	5/26/16	0%	FN	5/26/16	0
25	40SBN/2.9.3.8	(T3) - [Complete] Contract to Procure Materials and Fabricate Cryostat Top Cap Issued (SBN-ND-C)(P)	5/26/16	0%	FN	5/26/16	0
26	40SBN/2.5.2.5.9	(T4) - [Complete] - Completion of Fermilab Safety Review of CRT (SBN-ND-LCC)(TC)(D)	6/9/16	0%	BRN	6/9/16	0
27	40SBN/2.3.6.7	(T4) - [Complete] - Completion of US APA Wire Winding Readiness Review - (US) (SBN-ND-TPCC)(AC)	6/16/16	0%	FN	6/16/16	0
28	40SBN/2.9.3.4	(T4) - [Complete] Procurement of Cryostat Support Structure (SBN-ND-C)(P)	6/23/16	0%	FN	6/23/16	0
29	40SBN/2.5.2.5.11	(T3) - [Complete] - Approval for CRT Installation (SBN-ND-LCC)(TC)(D)	6/30/16	0%	BRN	6/30/16	0
30	40SBN/2.6.2.1.12	(T4) - [Complete] - Warm Interface Electronics Prototype Evaluation Test (SBN-ND-TPCE)(WE)(PD)	6/30/16	0%	BN	6/30/16	0
31	40SBN/2.6.3.1.17	(T4) - [Complete] - Feed-Through & Warm Interface Electronics Final Design Review (SBN-ND-TPCE)(CC)(PD)	6/30/16	0%	FN	6/30/16	0
32	40SBN/2.6.4.1.14	(T4) - [Complete] - Nevis Readout Engineering Design Reviews (SBN-ND-TPCE)(NR)(PD)	6/30/16	0%	NEV	6/30/16	0
33	40SBN/2.8.1.21	(T4) - [Complete] - Near Detector Installation Design (SBN-ND-TPCE)	7/6/16	0%	FN	7/6/16	0
34	40SBN/2.5.1.3.13	(T4) - [Complete] - Laser System Ready to Delivery (SBN-ND-LCC)(S)(T)	7/12/16	0%	BRN	7/12/16	0
35	40SBN/2.6.1.2.5	(T4) - [Complete] - FE ASIC and ADC ASIC Design Ready for 2nd Prototype Submission (SBN-ND-TPCE)(CE)(PD)	7/18/16	0%	FN	7/18/16	0
36	40SBN/2.4.1.12	(T4) - [Complete] - Completion of PMT Integration and Installation Design Review (SBN-ND-LDC)(MS)	7/21/16	0%	LOS	7/21/16	0
37	40SBN/2.4.2.8	(T4) - [Complete] - Completion of PMT Front-end Electronis Technical Design and Safety Review (SBN-ND-LDC)(ED)	7/21/16	0%	LOS	7/21/16	0
38	40SBN/2.3.3.7	(T4) - [Complete] - Completion of QA APA Frames 2 and 3 and Delivery to US - (UK) (SBN-ND-TPCC)(FC)	8/5/16	0%	UK	8/5/16	0
39	40SBN/2.3.3.9	(T4) - [Complete] - Completion of Procurement of APA Frame 4 for UK Winding - (UK) (SBN-ND-TPCC)(FC)	8/22/16	0%	UK	8/22/16	0
40	40SBN/2.3.9.6	(T4) - [Complete] - Completion of Field Cage Production and Installation Review - (US) (SBN-ND-TPCC)(FC)	10/17/16	0%	FN	10/17/16	0
41	40SBN/2.7.2.10	(T5) - [Complete] - Completion of Design and Safety Reviews of Power Supplies and Cabling (SBN-ND-DAQ)(RS)	10/31/16	0%	FN	10/31/16	0
42	40SBN/2.9.3.13	(T3) - [Start] Installation of Cryostat (Support Structure) (SBN-ND-C)(P)	11/4/16	0%	FN	11/4/16	0
43	40SBN/2.8.2.11	(T4) - [Complete] - Completion of Assembly Facility Setup (SBN-ND-IC)(AF)	11/9/16	0%	FN	11/9/16	0
44	40SBN/2.5.1.4.6	(T4) - [Complete] - Approval for Laser Calibration System Installation (SBN-ND-LCC)(S)(D)	11/10/16	0%	BRN	11/10/16	0
45	40SBN/2.6.4.2.9	(T4) - [Complete] - TPC Nevis readout production readiness review (SBN-ND-TPCE)(NR)(FD)	12/1/16	0%	NEV	12/1/16	0
46	40SBN/2.4.3.4	(T4) - [Complete] - Completion of PMT Detector Intallation Readines Review (SBN-ND-LDC)(CS)	12/2/16	0%	LOS	12/2/16	0
47	40SBN/2.9.3.17	(T4) - [Complete] Installation of Cryostat (Support Structure) (SBN-ND-C)(P)	12/5/16	0%	FN	12/5/16	0
48	40SBN/2.9.3.7	(T4) - [Complete] Cryostat Contract to GTT for Detailed Design and Procurement (SBN-ND-C)(P)	12/6/16	0%	FN	12/6/16	0
49	40SBN/2.3.7.6	(T4) - [Complete] - Completion of CPA Production and Installation Review - (UK) (SBN-ND-TPCC)(CC)	12/8/16	0%	UK	12/8/16	0
50	40SBN/2.3.10.4	(T4) - [Complete] - Completion of Field Cage Production and Installation Review - (US) (SBN-ND-TPCC)(CF)	12/8/16	0%	FN	12/8/16	0
51	40SBN/2.3.6.12	(T4) - [Complete] - Completion of US APA Production Review - (US) (SBN-ND-TPCC)(AC)	12/13/16	0%	FN	12/13/16	0
52	40SBN/2.6.1.2.30	(T4) - [Complete] - Cold Electronics Production Readiness and Safety Review (SBN-ND-TPCE)(CE)(FD)	12/19/16	0%	FN	12/19/16	0
53	40SBN/2.9.3.11	(T4) - [Complete] Procurement of Materials and Fabrication of Cryostat Top (SBN-ND-C)(P)	12/20/16	0%	FN	12/20/16	0
54	40SBN/2.3.6.14	(T4) - [Complete] - Completion of Delivery US APAs to Fermilab - (US) (SBN-ND-TPCC)(AC)	12/28/16	0%	FN	12/28/16	0
55	40SBN/2.3.5.10	(T4) - [Complete] - Completion of UK APA Production Review - (UK) (SBN-ND-TPCC)(AC)	1/23/17	0%	FN	1/23/17	0
56	40SBN/2.3.11.7	(T4) - [Complete] - Completion of TPC Assembly Tooling Installation Review - (US) (SBN-ND-TPCC)(AP)	1/24/17	0%	FN	1/24/17	0
57	40SBN/2.3.8.7	(T4) - [Complete] - Completion of HV and Feed Through Production and Installation Review - (US-UK) (SBN-ND-TPCC)(SF)	1/31/17	0%	FN	1/31/17	0
58	40SBN/2.6.3.2.15	(T4) - [Complete] - Feed-Through & Warm Interface Electronics Production Readiness and Safety Review (SBN-ND-TPCE)(CC)(FE	1/31/17	0%	FN	1/31/17	0
59	40SBN/2.3.7.8	(T4) - [Complete] - Completion of Delivery CPAs to Fermilab - (UK) (SBN-ND-TPCC)(CC)	2/27/17	0%	UK	2/27/17	0
60	40SBN/2.3.8.9	(T4) - [Complete] - Completion of Delivery HV Supply and Feed Through to Fermilab - (US-UK) (SBN-ND-TPCC)(SF)	2/27/17	0%	FN	2/27/17	0
61	40SBN/2.3.9.8	(T4) - [Complete] - Completion of Delivery Field Cage to Fermilab - (US) (SBN-ND-TPCC)(FC)	2/27/17	0%	FN	2/27/17	0
62	40SBN/2.3.10.6	(T4) - [Complete] - Completion of TPC Connection Frames Installation Review - (US) (SBN-ND-TPCC)(CF)	2/27/17	0%	FN	2/27/17	0
63	40SBN/2.3.11.9	(T4) - [Complete] - Completion of Delivery TPC Assembly Tooling to Fermilab - (US) (SBN-ND-TPCC)(AP)	2/27/17	0%	FN	2/27/17	0
64	40SBN/2.6.2.2.9	(T4) - [Complete] - Warm Interface Electronics Pre-Production Evaluation Test (SBN-ND-TPCE)(WE)(FD)	2/28/17	0%	BN	2/28/17	0
65	40SBN/2.3.5.12	(T4) - [Complete] - Completion of Delivery UK APAs to Fermilab - (UK) (SBN-ND-TPCC)(AC)	3/3/17	0%	FN	3/3/17	0
66	40SBN/2.8.3.3	(T4) - [Complete] - TPC Component Arrived at Fermilab for Assembly (SBN-ND-IC)(DA)	3/3/17	0%	FN	3/3/17	0
67	40SBN/2.8.3.10	(T4) - [Complete] - Completion of TPC Component Assembly (SBN-ND-IC)(DA)	4/7/17	0%	FN	4/7/17	0
68	40SBN/2.8.3.11	(T4) - [Complete] - Cryostat Top Delivery to Fermilab for TPC Installation (SBN-ND-IC)(DA)	4/7/17	0%	FN	4/7/17	0
69	40SBN/2.9.3.22	(T4) - [Complete] Installation of Membrane Cryostat (SBN-ND-C)(P)	6/6/17	0%	FN	6/6/17	0
70	40SBN/2.6.1.3.17	(T4) - [Complete] - Cold Electronics pORC Review (SBN-ND-TPCE)(CE)(P)	6/21/17	0%	FN	6/21/17	0
71	40SBN/2.6.3.3.13	(T4) - [Complete] - Feed-through & Warm Interface Electronics pORC Review (SBN-ND-TPCE)(CC)(P)	6/30/17	0%	FN	6/30/17	0
72	40SBN/2.4.2.20	(T4) - [Complete] - Completion of PMT Readout Electronics Technical Design and Safety Reviews (SBN-ND-LDC)(ED)	8/24/17	0%	LOS	8/24/17	0
73	40SBN/2.6.2.3.9	(T4) - [Complete] - Warm Interface Electronics Production Shipment (SBN-ND-TPCE)(WE)(P)	8/31/17	0%	BN	8/31/17	0
74	40SBN/2.5.1.5.4	(T3) - [Complete] - Laser Calibration System Installation Completed (SBN-ND-LCC)(S)(I)	9/13/17	0%	BRN	9/13/17	0
75	40SBN/2.8.3.30	(T4) - [Complete] - Completion of ND Transportation to ND Building (SBN-ND-IC)(DA)	10/20/17	0%	FN	10/20/17	0
76	40SBN/2.6.4.3.2.8	(T4) - [Complete] - TPC readout crates shipped to FNAL (SBN-ND-TPCE)(P)(FE)	10/27/17	0%	NEV	10/27/17	0
77	40SBN/2.8.4.19	(T4) - [Complete] - Completion of Detection Insertion into Cryostat (SBN-ND-IC)(DI)	1/12/18	0%	FN	1/12/18	0
78	40SBN/2.9.3.26	(T3) - [Complete] Near Detector Installed and Ready for Commissioning (SBN-ND-C)(P)	2/14/18	0%	FN	2/14/18	0
79	40SBN/2.8.5.7	(T2) - [Complete] - Near Detector Ready for Commissioning (SBN-ND-IC)(DC)	7/25/18	0%	FN	7/25/18	0
80	40SBN/2.8.4.32	(T4) - [Complete] - Completion of Cosmic Ray Tagger Installation (SBN-ND-IC)(DI)	11/15/18	0%	FN	11/15/18	0
81	40SBN/2.9.4.5	(T3) - [Complete] Commissioning Cool-down of Near Detector Cryostat (SBN-ND-C)(C)	12/26/18	0%	FN	12/26/18	0
82	40SBN/2.10	(T2) - [End WBS2] - End of Near Detector (SBN-ND)	12/26/18	0%	FN	12/26/18	0