

Appendix A

Level 1 Milestones

The first part of this appendix includes listing of NA-10 level 1 milestones, in table A-2, for FY2004-2013. ASCI level 1 milestones are highlighted in this table. The second part of this appendix lists all ASCI level 1 milestones prior to FY2004.

Table A-1. NA-10 Level 1 Milestones

#	Affinity Grouping	Milestone	Responsibility	Date Qx FYxx (M/YY)	Sub-program	Associated DP Priority
M1 M2 M3 M4 M5 M6	DSW Production	Meet the delivery requirements (i.e. surveillance, dismantlement, LLC replacement, etc.) established by the P&PD with particular emphasis on meeting established joint DoD and NNSA commitments in accordance with the Directive Schedule.	Plants, SNL LANL, LLNL	Q4 FY04 (9/04) Q4 FY05 (9/05) Q4 FY06 (9/06) Q4 FY07 (9/07) Q4 FY08 (9/08) Q4 FY09 (9/09)	DSW	1, 2, 9
M7 M8 M9 M10 M11 M12	Construction & Infrastructure	Annually, prepare and execute an integrated, comprehensive RTBF/FIRP plan consistent with the Nuclear Weapons Complex Enterprise Strategy to ensure a flexible, responsive, robust infrastructure.	All labs & plants	Q4 FY04 (9/04) Q4 FY05 (9/05) Q4 FY06 (9/06) Q4 FY07 (9/07) Q4 FY08 (9/08) Q4 FY09 (9/09)	RTBF	10, 9
M13 M14 M15 M16 M17 M18	Certification	Annually, assess the safety, security, and reliability of the stockpile and provide the required assessments of certification and reports to the Secretary for submission to the President.	LANL, LLNL, SNL	Q2 FY04 (1/04) Q2 FY05 (1/05) Q2 FY06 (1/06) Q2 FY07 (1/07) Q2 FY08 (1/08) Q2 FY09 (1/09)	DSW	2
M19	Science & Engineering	Develop a resource-loaded plan for conducting DyNex experiments, including acquisition or manufacture of necessary materials, to support a decision by NA-10 whether to proceed.	LANL	Q2 FY04 (3/04)	Primary Certification	6
M20	LEPs	Complete the life extension refurbishment of the W87.	LLNL, Plants	Q3 FY04 (3/04)	DSW	5
M21	Science & Engineering	DARHT dual axis multi-pulse radiographic capability available to the National Hydrotest Program.	LANL, LLNL	Q2 FY05 (3/05)	Advanced Radiography	3
M22	ICF	Complete the first stewardship experiment on NIF	LLNL, LANL, SNL	Q4 FY04 (9/04)	ICF	3
M23	National Priorities	Define and begin implementation of a framework for developing advanced warhead concepts, including completion of 6.2/2a RNEP, to support the Nuclear Posture Review and the emerging needs of the DoD.	LANL, LLNL, SNL	Q4 FY05 (9/05)	DSW	4
M24	National Priorities	Complete transition to and maintain the capability to conduct underground nuclear testing within 18 months of the President's decision to conduct testing.	NV-BN LANL, SNL, LLNL	Q4 FY05 (9/05)	Primary Certification	8
M25	Science & Engineering	Complete and execute a full year of hydro tests as documented in the National Hydrotest Plan	LANL, LLNL	Q1 FY06 (12/05)	Primary Certification	3
M26	ASC	Document the requirements to move beyond a 100TF ASC computing platform to a petaflop platform	LANL, LLNL, SNL	Q1 FY05 (12/04)	ASC	3
M27	Science & Engineering	Provide pit lifetime estimates based on plutonium-spiked alloy.	LLNL, SNL	Q3 FY06 (6/06)	Enhanced Surveillance	

Table A-1. NA-10 Level 1 Milestones (continued)

M28	LEPs	Complete certification of a B61warhead with quantified design margins and uncertainties.	LANL, SNL	Q3 FY06 (6/06)	DSW	5
M29	LEPs	Complete the life extension refurbishment of the first production unit for the B61in accordance with the approved project baseline.	LANL, SNL, Plants	Q2 FY06 (3/06)	DSW	5
M30	Pits	Provide design, R&D, and documentation to support system requirements and alternatives for CD-1 approval on the Modern Pit Facility.	HQ	Q2 FY06 (2/06)	Pit Certification & Manufacturing	6
M31	LEPs	Complete certification of a W80-3 warhead with quantified design margins and uncertainties.	LLNL, SNL	Q2 FY06 (3/06)	DSW	5
M32	LEPs	Complete the life extension refurbishment of the first production unit for the W80-3 in accordance with the approved project baseline.	LLNL, SNL, Plants	Q2 FY06 (3/06)	DSW	5
M33	ASC	Develop, implement, and validate an initial physics/engineering capability in advanced ASCI simulations and benchmark for the W76 and W80 against legacy codes and experiments	LANL, LLNL, SNL	Q3 FY06 (2/06)	ASC	3
M34	ASC	Provide a 100TF Platform environment supporting to the tri-laboratory DSW & Campaign simulation requirements	LLNL	Q1 FY07 (12/06)	ASC	3
M35	ICF	Complete the first ZR stewardship experiment	SNL	Q3 FY07 (6/07)	ICF	3
M36	LEPs	Complete certification of a W76-1 warhead with quantified design margins and uncertainties.	LANL, SNL	Q4 FY07 (9/07)	DSW	5
M37	LEPs	Complete the life extension refurbishment of the first production unit for the W76-1 in accordance with the approved project baseline.	LANL, SNL, Plants	Q4 FY07 (9/07)	DSW	5
M38	Pits	Certification of a W88 warhead with a Los Alamos-manufactured pit using quantification of margins and uncertainties.	LANL	Q4 FY07 (9/07)	Pit Certification & Manufacturing	6
M39	Pits	Begin type 126 pit manufacturing capability at ten pits per year.	LANL	Q4 FY07 (9/07)	Pit Certification & Manufacturing	6
M40	Construction & Infrastructure	Complete the key requirements for CD4 approval of MESA.	SNL	Q2 FY10 (4/10)	Engineering Campaigns	7,1,3
M41	ICF	CD4 approval to begin NIF operations.	LLNL	Q4 FY08 (9/08)	ICF	7
M42	Construction & Infrastructure	Complete the key requirements for CD4 approval on the Tritium Extraction Facility.	SRS	Q4 FY08 (9/08)	Tritium Readiness	7,1
M43	National Priorities	Irradiated Tritium Producing Burnable Absorber Bar (TPBAR) delivered to the Tritium Extraction Facility.	SRS	Q4 FY08 (9/08)	Tritium Readiness	7,1
M44	ASC	Complete modern baseline of all enduring stockpile systems with ASC codes	LANL, LLNL, SNL	Q4 FY09 (9/09)	ASC	3
M45	ICF	Commence indirect-drive ignition experiments on the National Ignition Facility.	LANL LLNL SNL	Q1 FY13 (12/12)	ICF	3