



Los Alamos Study Group

Plutonium (Pu) Modernization Spending, Actual and Proposed by Site, \$M, from FY22 CBR (grn from FY21 CBR, red are LASG estimates) <b>LOW-END ESTIMATES</b> (as of 24 Aug 2021)																																
	Prior years	2019	2020	2021	Through 2021	2022	2023	2024	2025	2026	2022-2026	2027	2028	Total 2022-2028	Total through 2028	Five Outyears	Total through 2033	Notes														
Los Alamos National Laboratory (LANL) Pu Operations (pp. ); from 2027 on, \$1,000 M indefinitely		271.6	287.0	610.6	1,169.2	635.3	733.2	810.2	842.5	943	3,964.2	1000	1000	5,964.2	7,133.4	5,000.0	12,133.4															
LANL Plutonium Pit Production Project (LAP4), 21-D-512 (pp. ); from 2028, this row is \$200 M/year for other line items		5.0	55.0	226.0	286.0	350.0	400	500	600	500	2,350.0	300	50	2,700.0	2,700.0	-	2,700.0	Low-end CD-1 est.	143													
<b>Subtotal LANL Pu Modernization</b>		276.6	342.0	836.6	1,455.2	985.3	1,133.2	1,310.2	1,442.5	1,443.0	6,314.2	1,300.0	1,050.0	8,664.2	9,833.4	5,000.0	14,833.4	13,378.2	FY22-33	143												
<b>Major supporting infrastructure not included in the above:</b>																																
LANL Chemistry Metallurgy Research Replacement (CMRR) Project, 04-D-125), \$20 M moved from FY29 to FY28	1,713.00	237.0	168.4	169.4	2,287.8	138.1	113.7	100.0	75.0	60.0	486.8	51.4	60.0	598.2	2,886.0	0.0	2,886.0	CBR														
LANL Transuranic (TRU) Liquid Waste Facility, 07-D-220-04 (pp.)		1.0	1.7	37.7	40.4										40.4	0.0	40.4	CBR														
LANL TA-55 Reinvestment Phase III (TRP-III), 15-D-302 (pp. )	43.7	1.8	0.0	32.0	77.5	32.0	32.0	32.0	32.0	30.5	158.5			158.5	236.0	0.0	236	CBR														
<b>Subtotal LANL Pu Modernization, including large projects only</b>	1756.7	516.4	512.1	1,075.7	3,860.9	1,155.4	1,278.9	1,442.2	1,549.5	1,533.5	6,959.5	1,351.4	1,110.0	9,420.9	12,995.8	5,000.0	17,995.8	14,134.9	FY22-33	594												
<b>Other LANL projects, from next sheet (not done yet; formulas should work)</b>					0						0			-	-		-															
<b>Total LANL Pu Modernization</b>	1,756.7	516.4	512.1	1,075.7	3,860.9	1,155.4	1,278.9	1,442.2	1,549.5	1,533.5	6,959.5	1,351.4	1,110.0	9,420.9	#####	5,000.0	17,995.8															
Savannah River Site (SRS) Pu Operations (pp. ); 2027 and after: \$500 M/year		76.4	410.5	200.0	686.9	179.0	191.6	226.7	366.0	420.0	1,383.3	460.0	500.0	2,343.3	3,030.2	2,500.0	5,530.2															
Savannah River Plutonium Processing Facility (SRPPF) Design & Construction, 21-D-511 (pp. )		70.0	246.0	351.9	667.9	475.0	550.0	600.0	600.0	600.0	2,825.0	600.0	600.0	4,025.0	4,692.9	2,207.1	6,900.0	Low-end CD-1 est.														
<b>Total SRS Pu Modernization</b>		146.4	656.5	551.9	1,354.8	654.0	741.6	826.7	966.0	1,020.0	4,208.3	1,060.0	1,100.0	6,368.3	7,723.1	4,707.1	12,430.2	11,075.4	FY22-33	504												
Enterprise plutonium support, multiple sites, (pp. ); 2027 and after, \$200 M/year		53.7	79.2	90.8	223.7	107.1	120.0	140.0	160.0	180.0	707.1	200.0	150.0	1,280.8	1,504.5	450.0	1,954.5	1,730.8	FY22-33	1,344												
<b>Total Complex-wide Pu Modernization</b>	1756.7	716.5	1,247.8	1,718.4	5,439.4	1,916.5	2,140.5	2,408.9	2,675.5	2,733.5	11,874.9	2,611.4	2,360.0	16,846.3	22,223.4	10,157.1	32,380.5	26,941.1	FY22-33	1,648												
<b>Enterprise Plutonium Support (FY21 CBR numbers at present)</b>																																
KCNSC		3.4	7.4	8.0																												
LLNL		31.2	36.8	51.4																												
National Energy Technology Lab		0.6	2.3	2.0																												
NNSA		5.1	8.9	13.6																												
NNSA Albuquerque Complex		7.5	7.2	0.4																												
<b>Total</b>		47.8	62.6	75.4																												

For reference: <https://www.heinrich.senate.gov/press-releases/heinrich-secures-significant-advancements-for-nm-military-installations-national-labs-and-artificial-intelligence-in-annual-defense-spending-bill>  
p. 13 AoA for average ppy for each production level. At [http://lasg.org/MPF2/documents/NNSA\\_PuPitAoA\\_Oct2017\\_redacted.pdf](http://lasg.org/MPF2/documents/NNSA_PuPitAoA_Oct2017_redacted.pdf)

pre-FY22 sunk costs      FY21 CBR FYNSP  
subtotals      NNSA estimates  
FY22 CBR request      Totals  
red numbers      LASG estimates