

Nuclear Watch New Mexico

Department of Energy FY 2020 Nuclear Weapons Budget Request

National Nuclear Security Administration

(All numbers in thousands of US dollars)

(NNSA is the semi-autonomous nuclear weapons agency with DOE)	<i>FY2019 Enacted</i>	<i>FY2020 Request</i>	<i>FY19-FY20 ± % Change</i>	<i>FY21-FY24 4yr Planned Total</i>
Total Weapons Activities	11,100,000	12,408,603	11.8%	52,360,086
Directed Stockpile Work (The core hands-on research and production nuclear weapons work)	4,658,266	5,426,357	16.5%	25,112,592
Life Extension Programs	1,919,988	2,117,359	10.3%	9,350,340
B61-12	794,049	792,611	-0.2%	2,284,563
W76-2	65,000	10,000	-84.6%	-
W80-4	654,765	898,551	37.2%	4,371,010
W87-1 (formerly Interoperable Warhead-1)	----	112,011	New	1,803,261
"Next Navy Warhead" (formerly IW-2)	----	----	New	239,390
Stockpile Systems	599,482	635,766	6.1%	2,533,275
B83 (1.2 megatons previously slated for retirement)	35,082	51,543	46.9%	167,647
Weapons Dismantlement and Disposition	56,000	47,500	-15.2%	203,000
Stockpile Services	1,048,726	1,124,538	7.2%	4,846,768
Strategic Materials	1,034,070	1,501,194	45.2%	8,179,209
Plutonium Sustainment	286,282	691,284	141.5%	4,962,663
Plutonium Pit Production Project	22,177	21,156	-4.6%	TBD
SRS Plutonium Processing Facility	----	410,000	New	TBD
Research, Development, Test and Evaluation	2,014,218	2,277,867	13.1%	9,493,063
Science (Provide assessments of weapon performance)	480,484	586,561	22.1%	2,728,487
Enhanced Capabilities for Subcritical Tests	50,000	145,160	190.3%	691,512
Engineering	190,123	233,954	23.1%	1,084,459
Inertial Confinement Fusion Ignition & High Yield	544,934	480,595	-11.8%	2,044,584
Ignition (Reflects failure of Natl. Ignition Fac.)	0	0	0.0%	0%
Advanced Simulation and Computing Campaign	717,119	839,849	17.1%	3,150,320
Advanced Manufacturing Development	81,558	136,908	67.9%	485,213
Infrastructure and Operations	3,087,852	3,208,442	3.9%	11,904,999
Total Operating	2,054,057	2,062,998	0.4%	8,354,126
Construction	1,033,795	1,145,444	10.8%	3,550,873
Uranium Processing Facility, Y-12	703,000	745,000	6.0%	1,834,589
CMRR Project, LANL	219,842	168,444	-23.4%	0
Secure Transportation Asset	278,639	317,162	13.8%	1,245,071
Defense Nuclear Security (guards, guns, and gates)	690,638	778,213	12.7%	3,132,848
IT & Cybersecurity	221,175	309,362	39.9%	1,198,913
Legacy Contractor Pensions	162,292	91,200	-43.8%	272,600

Defense Nuclear Nonproliferation

(All numbers in thousands of US dollars)

	<i>FY2019 Enacted</i>	<i>FY2020 Request</i>	<i>FY20-FY19 ± % Change</i>	<i>FY21-FY24 4yr Planned Total</i>
Defense Nuclear Nonproliferation	1,930,000	1,993,302	3.3%	8,193,088
Material Management and Minimization	293,794	333,533	13.5%	1,973,904
Global Material Security	407,108	342,350	-15.9%	1,516,092

Nonproliferation and Arms Control	129,703	137,267	5.8%	571,883
Defense nuclear nonproliferation R&D	575,570	495,357	-13.9%	2,002,247
Nonproliferation Construction	220,000	299,000	35.9%	587,649
(NNSA is terminating the boondoggle MOX program in favor of diluting plutonium and disposing at the WIPP facility)				
Mixed Oxide (MOX) Fuel Fabrication Facility	220,000	220,000	0.0%	109,382
Surplus Plutonium Disposition Project	0	79,000	New	263,375
Nuclear Counterterrorism and Incident Response	319,185	372,095	16.6%	1,493,107
Legacy Contractor Pensions	28,640	13,700	-52.2%	48,200
Naval Reactors	1,788,618	1,648,396	-7.8%	6,925,689
(Reactors in nuclear-powered submarines and aircraft carriers)				

Federal Salaries and Expenses	422,529	400,000	-5.3%	1,795,137
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Total NNSA	15,228,618	16,485,000	8.3%	69,274,000
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(Future Year Costs Not Available For the Below)

(All numbers in thousands of US dollars)	<i>FY 2018 Enacted</i>	<i>FY2019 Enacted</i>	<i>FY2020 Request</i>	<i>FY20-FY19 ± % Change</i>
Environmental Management	7,126,448	7,175,129	6,469,093	-9.8%
Defense Environmental Cleanup	5,988,048	6,024,000	5,506,501	-8.6%
Hanford Site Total	863,192	865,171	628,820	-27.3%
Office of River Protection (Also at Hanford)	1,560,000	1,573,000	1,392,460	-11.5%
Idaho National Laboratory Total	434,071	433,200	334,854	-22.7%
Savannah River Site Total	1,312,314	1,387,657	1,463,132	5.4%
Oak Ridge Total	400,219	410,000	292,781	-28.6%
Waste Isolation Pilot Plant	376,571	396,907	391,642	-1.3%
Los Alamos National Laboratory	220,000	220,000	195,462	-11.2%
Nevada	60,136	60,136	60,737	1.0%
Uranium Enrichment D&D Fund	840,000	841,129	715,112	-15.0%
Non-Defense Environmental Cleanup	298,400	310,000	247,480	-20.2%
Office of Legacy Management	154,606	158,877	303,029	90.7%
Yucca Mountain and Interim Storage	----	----	116,000	New
Office of Science	6,295,903	6,585,000	5,545,972	-15.8%

Energy Programs	<i>FY 2018 Enacted</i>	<i>FY2019 Enacted</i>	<i>FY2020 Request</i>	<i>FY20-FY19 ± %</i>
(All numbers in thousands of US dollars)				
Energy Efficiency and Renewable Energy	2,321,778	2,379,000	343,000	-85.6%
Electricity Delivery and Energy Reliability	261,329	156,000	182,500	17.0%
Cybersecurity, Energy Security, and Emergency Response	0	120,000	156,500	30.4%
Nuclear Energy	1,205,056	1,326,090	824,000	-37.9%
Total Coal & Advanced Coal Energy	481,117	486,230	387,425	-20.3%
Fossil Petroleum Reserves	280,516	265,000	215,000	-18.9%

Advanced Research Projects Agency - Energy	353,314	366,000	-287,000	-178.4%
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Sources: DOE FY 2020 Congressional Budget Justification, Volumes 1 & 5 and "Laboratory Tables"
<https://www.energy.gov/cfo/downloads/fy-2020-budget-justification> March 26, 2019