

Laboratory Tables Preliminary

Department of Energy FY 2019 Congressional Budget Request



Laboratory Tables Preliminary

The numbers depicted in this document represent the <u>gross</u> level of DOE <u>budget authority</u> for the years displayed. The figures include both the discretionary and mandatory funding in the budget. They do not consider revenues/receipts, use of prior year balances, deferrals, rescissions, or other adjustments appropriated as offsets to the DOE appropriations by the Congress.

Laboratory Table (Dollars In Thousands)

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Page Number	Laboratory / Facility Index	FY 2017	FY 2018	FY 2019
1	Amon Laboratory	Enacted	Annualized CR	Request
	Ames Laboratory Ames Site Office	\$53,127 \$649	\$46,009 \$477	\$17,780 \$642
_		\$640,901	\$607,856	
	Argonne National Laboratory			\$652,328
	Argonne Site Office	\$3,897	\$4,699	\$4,435
	Bechtel Marine Propulsion Center	\$2,956 \$3,419	\$453 \$3,565	\$0 \$3,945
	Berkeley Site Office	\$500,514	\$3,505 \$497,115	
				\$685,949 \$475,145
	Brookhaven National Laboratory	\$491,126	\$466,592	\$475,145
	Brookhaven Site Office	\$4,806	\$4,755	\$4,772
	Carlsbad Area Office	\$64,502	\$63,605	\$87,008
	Chicago Operations Office	\$888,725	\$706,100	\$791,105
	Consolidated Business Center	\$29,753	\$32,862	\$35,564
	East Tennessee Technology Park (K25)	\$234,945	\$233,351	\$182,320
18	Energy Technology Engineering Center	\$10,459	\$10,388	\$8,038
	Fermi National Accelerator Laboratory	\$409,392	\$398,119	\$445,327
	Fermi Site Office	\$2,663	\$2,535	\$2,390
	Fernald Environmental Management Project	\$1,000	\$993	\$1,100
	Fernald Site	\$13,369	\$12,400	\$12,276
	General Atomics Site	\$25,020	\$24,850	\$0
24	Golden Field Office	\$316,389	\$211,117	\$143,527
25	Grand Junction Office	\$35,501	\$37,362	\$43,553
26	Hanford Site	\$891,475	\$885,421	\$741,976
27	Idaho National Laboratory	\$1,201,751	\$1,172,116	\$1,098,523
30	Idaho Operations Office	\$252,950	\$252,753	\$199,872
32	Kansas City National Security Complex (KCNSC)	\$533,750	\$530,127	\$796,827
33	Kansas City Site Office	\$242,872	\$240,974	\$7,433
34	Knolls Atomic Power Laboratory	\$630,981	\$626,696	\$740,237
35	Lawrence Berkeley National Laboratory	\$736,201	\$693,199	\$601,606
38	Lawrence Livermore National Laboratory	\$1,454,806	\$1,438,366	\$1,482,374
41	Lexington Office	\$200	\$200	\$200
42	Livermore Site Office	\$18,740	\$18,612	\$18,645
43	Los Alamos National Laboratory	\$2,245,236	\$2,213,552	\$2,436,530
46	Los Alamos Site Office	\$16,658	\$16,544	\$17,251
47	Miamisburg Site	\$5,500	\$5,463	\$0
48	Moab Site	\$37,884	\$37,626	\$34,993
49		\$12,500	\$16,211	\$18,274
50	Mound Site	\$15,283	\$14,500	\$14,446
51	National Energy Technology Lab	\$799,177	\$813,946	\$520,481
54	National Renewable Energy Laboratory	\$327,117	\$327,546	\$158,678

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Laboratory Table (Dollars In Thousands)

Page Number	Laboratory / Facility Index	FY 2017	FY 2018	FY 2019
F.C.		Enacted	Annualized CR	Request
	Naval Petroleum Reserve No 1 Naval Petroleum Reserve No 3	\$13,580 \$300	\$13,487 \$298	\$19,550 \$0
	Naval Departure Laboratory Field Office		•	·
	Naval Reactors Laboratory Field Office	\$20,660 \$13,334	\$20,520	\$21,200
	Naval Research Laboratory	\$13,324	\$13,233	\$4,050 \$159,170
	Nevada Field Office	\$112,771	\$112,319	\$158,170
	Nevada National Security Site	\$436,244	\$433,282	\$484,883
	Nevada Operations Office	\$145	\$0	\$0 \$000
	New Brunswick Laboratory	\$206	\$203	\$228
	New Brunswick Laboratory Program Office	\$2,493	\$1,511	\$0
	NNSA Albuquerque Complex	\$489,711	\$485,969	\$776,224
	NNSA Production Office (NPO)	\$51,841	\$51,488	\$54,314
	Oak Ridge Institute for Science & Education	\$38,249	\$19,563	\$14,274
	Oak Ridge National Laboratory	\$1,311,325	\$1,266,354	\$1,256,483
	Oak Ridge National Laboratory Site Office	\$6,186	\$5,766	\$5,465
	Oak Ridge Office	\$91,946	\$89,209	\$98,401
	Oak Ridge Reservation	\$68,457	\$67,992	\$67,000
	Oak Ridge Reservation (Off-Site)	\$5,500	\$5,462	\$4,711
78	Office of River Protection	\$1,458,360	\$1,448,595	\$1,414,941
79	Office of Scientific & Technical Information	\$11,858	\$10,875	\$10,572
	Ohio Field Office	\$5	\$5	\$5
81	Pacific Northwest National Laboratory	\$592,159	\$544,268	\$455,745
84	Pacific Northwest Site Office	\$5,105	\$4,894	\$5,170
85	Paducah Gaseous Diffusion Plant	\$288,349	\$286,598	\$286,974
86	Pantex Plant	\$754,337	\$749,214	\$825,052
87	Pinellas Site	\$7,310	\$5,700	\$5,545
88	Portsmouth Gaseous Diffusion Plant	\$386,171	\$382,378	\$418,458
89	Princeton Plasma Physics Laboratory	\$80,495	\$60,326	\$76,821
90	Princeton Site Office	\$1,647	\$1,794	\$1,978
91	Richland Operations Office	\$147,305	\$145,745	\$106,131
92	Rocky Flats Site	\$46,418	\$45,469	\$36,346
93	Sandia National Laboratories	\$1,920,120	\$1,899,843	\$2,258,041
96	Sandia Site Office	\$20,353	\$20,215	\$22,992
97	Savannah River National Laboratory	\$8,622	\$5,481	\$841
98	Savannah River Operations Office	\$197,960	\$199,179	\$244,107
99	Savannah River Site	\$1,883,804	\$1,871,011	\$2,122,708
100	Savannah River Site Office	\$5,278	\$5,242	\$5,777
101	Separations Process Research Unit	\$3,685	\$3,660	\$15,000
	SLAC National Accelerator Laboratory	\$552,652	\$480,226	\$420,727
	Southeastern Power Administration	\$84,929	\$84,352	\$79,684

Laboratory Table (Dollars In Thousands)

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Page Number	Laboratory / Facility Index	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
104	Southwestern Power Administration	\$140,898	\$83,984	\$159,876
105	Stanford Site Office	\$5,457	\$2,638	\$2,623
106	Strategic Petroleum Reserve - Bayou Choctaw	\$14,339	\$14,241	\$11,419
107	Strategic Petroleum Reserve - Big Hill	\$25,538	\$25,365	\$23,601
108	Strategic Petroleum Reserve - Bryan Mound	\$19,057	\$18,928	\$19,298
109	Strategic Petroleum Reserve - West Hackberry	\$32,520	\$32,299	\$19,888
110	Strategic Petroleum Reserve Project Office	\$118,600	\$117,794	\$88,223
111	Thomas Jefferson National Accelerator Facility	\$123,070	\$111,270	\$112,412
112	Thomas Jefferson Site Office	\$1,905	\$1,921	\$2,088
113	Undesignated Lab/Plant/Installation	\$16,020	\$15,935	\$17,543
114	University of Rochester	\$68,000	\$67,538	\$45,383
115	Washington Headquarters	\$5,046,618	\$5,628,333	\$4,459,020
122	Waste Isolation Pilot Plant	\$275,089	\$273,221	\$330,812
123	Weldon Spring Site Office	\$7,911	\$8,000	\$2,996
124	West Valley Demonstration Project	\$69,628	\$69,156	\$63,687
125	Western Area Power Administration	\$900,594	\$684,964	\$806,152
126	Y-12 National Security Complex	\$1,563,781	\$1,553,161	\$1,763,360
127	Y-12 Site Office	\$64,771	\$64,332	\$33,234
128	Yucca Mountain Site Office	\$1,900	\$0	\$0
	Total Department Of Energy	\$32,771,750	\$32,283,861	\$32,225,733

Laboratory Table (Dollars In Thousands)

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es Laboratory	FY 2017	FY 2018	FY 201
Electricity Delivery and Energy Reliability	Enacted	Annualized CR	Reques
Electricity Delivery and Energy Reliability Electricity Delivery and Energy Reliability			
Transmission Reliability	\$120	\$120	\$12
Total Electricity Delivery and Energy Reliability	\$120	\$120	\$12
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Hydrogen & Fuel Cell Technologies	\$350	\$250	\$25
Vehicle Technologies	\$1,400	\$1,400	\$
Advanced Manufacturing	\$25,000	\$25,000	\$
Bioenergy Technologies	\$206	\$206	\$
Total Energy Efficiency and Renewable Energy	\$26,956	\$26,856	\$25
Total Energy Efficiency and Renewable Energy	\$26,956	\$26,856	\$25
Science			
Basic Energy Sciences			
Basic Energy Sciences	\$20,064	\$15,790	\$15,47
Biological and Environmental Research			
Biological and Environmental Research	\$1,200	\$1,000	9
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$537	\$0	9
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$2,000	\$0	9
Safeguards and Security			
Safeguards and Security	\$1,231	\$1,231	\$1,23
Total Science	\$25,032	\$18,021	\$16,71
Fossil Energy Research and Development			
CCS and Power Systems			
Advanced Energy Systems	\$500	\$497	\$
Cross Cutting Research	\$519	\$515	9
Total CCS and Power Systems	\$1,019	\$1,012	9
Advanced Coal Energy Systems and CCUS			
Advanced Energy Systems	\$0	\$0	\$50
Crosscutting Research	\$0	\$0	\$20
Total Advanced Coal Energy Systems and CCUS	\$0	\$0	\$70
Total Fossil Energy Research and Development	\$1,019	\$1,012	\$70
I Ames Laboratory	\$53,127	\$46,009	\$17,78

Laboratory Table (Dollars In Thousands)

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nes Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$649	\$477	\$642
Total Science	\$649	\$477	\$642
otal Ames Site Office	 \$649	\$477	\$642

Laboratory Table (Dollars In Thousands)

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onne National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Electricity Delivery and Energy Reliability	Endoted	7 tillidalizad of t	rtoquoo
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$2,301	\$2,600	\$1,495
Resilient Distribution Systems	\$4,233	\$5,956	\$1,775
Cybersecurity for Energy Delivery Systems	\$3,498	\$654	\$(
Energy Storage	\$399	\$0	\$0
Transformer Resilience and Advanced Components	\$104	\$0	\$50
Transmission Permitting and Technical Assistance	\$190	\$277	\$250
Infrastructure Security & Energy Restoration	\$125	\$125	\$0
Total Electricity Delivery and Energy Reliability	\$10,850	\$9,612	\$3,570
Total Electricity Delivery and Energy Reliability	\$10,850	\$9,612	\$3,570
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$1,000
CEDS	\$0	\$0	\$654
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$1,654
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$1,654
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$14,463	\$13,391	\$1,212
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$6,368	\$5,385	\$6,230
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$15,316	\$13,787	\$11,800
International Nuclear Energy Cooperation			
International Nuclear Energy Cooperation	\$738	\$325	\$70
Total Nuclear Energy	\$36,885	\$32,888	\$19,312
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$1,601	\$1,601	\$427
Hydrogen & Fuel Cell Technologies	\$8,603	\$3,385	\$2,985
Water Power	\$1,552	\$365	\$320
Solar Energy	\$519	\$1,000	\$0
Vehicle Technologies	\$55,204	\$55,204	\$14,665
Building Technologies	\$1,329	\$1,320	\$263
Bioenergy Technologies	\$6,055	\$6,055	\$2,675
Total Energy Efficiency and Renewable Energy	\$74,863	\$68,930	\$21,335
Total Energy Efficiency and Renewable Energy	\$74,863	\$68,930	\$21,335
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$800

Laboratory Table (Dollars In Thousands)

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onne National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Total Nuclear Waste Disposal	\$0	\$0	\$800
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$83,956	\$112,272	\$149,196
Basic Energy Sciences			
Basic Energy Sciences	\$267,871	\$221,300	\$274,509
Biological and Environmental Research			
Biological and Environmental Research	\$31,823	\$28,234	\$21,46
High Energy Physics			
High Energy Physics	\$15,765	\$14,839	\$11,700
Nuclear Physics			
Nuclear Physics	\$30,791	\$30,608	\$30,270
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$1,420	\$0	\$0
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$21,993	\$24,839	\$59,224
Safeguards and Security			
Safeguards and Security	\$9,240	\$9,259	\$9,284
Total Science	\$462,859	\$441,351	\$555,644
Weapons Activities			
Science			
Science Campaign	\$700	\$695	\$820
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$500	\$497	\$0
Infrastructure and Operations			
Infrastructure and Operations	\$1,500	\$1,490	\$0
Total Weapons Activities	\$2,700	\$2,682	\$820
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$945	\$945	\$945
Total Other Defense Activities	\$945	\$945	\$945
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$10,673	\$10,601	\$5,294
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$3,226	\$3,204	\$3,500
Global Material Security			
Global Material Security	\$2,130	\$2,116	\$1,952
Material Management and Minimization		•	
Material Management and Minimization	\$26,808	\$26,626	\$27,85
Nonproliferation and Arms Control			. , -
Nonproliferation and Arms Control	\$8,962	\$8,901	\$9,363
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Laboratory Table (Dollars In Thousands)

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gonne National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Total Defense Nuclear Nonproliferation	\$51,799	\$51,448	\$47,964
Fossil Energy Research and Development Advanced Coal Energy Systems and CCUS			
Advanced Energy Systems	\$0	\$0	\$284
Total Fossil Energy Research and Development	\$0	\$0	\$284
tal Argonne National Laboratory	\$640,901	\$607,856	\$652,328

Laboratory Table (Dollars In Thousands)

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gonne Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			_
Program Direction			
Program Direction	\$3,897	\$4,699	\$4,435
Total Science	\$3,897	\$4,699	\$4,435
tal Argonne Site Office	\$3,897	\$4,699	\$4,435

Laboratory Table (Dollars In Thousands)

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etal Marina Pranulaian Contor	FY 2017	FY 2018	FY 2019
chtel Marine Propulsion Center	Enacted	Annualized CR	Request
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$2,500	\$0	\$0
Total Nuclear Energy	\$2,500	\$0	\$0
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$456	\$453	\$0
Total Weapons Activities	\$456	\$453	\$0
tal Bechtel Marine Propulsion Center	\$2,956	\$453	\$0

Laboratory Table (Dollars In Thousands)

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erkeley Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$3,419	\$3,565	\$3,945
Total Science	\$3,419	\$3,565	\$3,945
otal Berkeley Site Office	\$3,419	\$3,565	\$3,945

Laboratory Table (Dollars In Thousands)

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Bettis Atomic Power Laboratory	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Naval Reactors			
Naval Reactors Program			
Naval Reactors Program	\$500,514	\$497,115	\$685,949
Total Naval Reactors	\$500,514	\$497,115	\$685,949
Total Bettis Atomic Power Laboratory	\$500,514	\$497,115	\$685,949

Laboratory Table (Dollars In Thousands)

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khaven National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Non-Defense Environmental Cleanup	Litacica	Annualized Ort	reques
Small Sites			
Small Sites	\$0	\$0	\$2,000
Total Non-Defense Environmental Cleanup	\$0	\$0	\$2,000
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$581	\$650	\$433
Resilient Distribution Systems	\$91	\$122	\$85
Cybersecurity for Energy Delivery Systems	\$233	\$200	\$0
Energy Storage	\$8	\$0	<u>\$0</u>
Total Electricity Delivery and Energy Reliability	\$913	\$972	\$518
Total Electricity Delivery and Energy Reliability	\$913	\$972	\$518
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
CEDS	\$0	\$0	\$200
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$200
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$2,084	\$1,959	\$733
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$0	\$150	\$150
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$75	\$98	\$85
International Nuclear Energy Cooperation			
International Nuclear Energy Cooperation	\$0	\$0	\$5
Total Nuclear Energy	\$2,159	\$2,207	\$973
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Geothermal Technologies	\$425	\$425	\$0
Hydrogen & Fuel Cell Technologies	\$1,252	\$300	\$300
Solar Energy	\$500	\$0 \$0.557	\$0
Vehicle Technologies	\$2,557	\$2,557	\$900
Total Energy Efficiency and Renewable Energy	\$4,734	\$3,282	\$1,200
Total Energy Efficiency and Renewable Energy	\$4,734	\$3,282	\$1,200
Science			
Advanced Scientific Computing Research			_
Advanced Scientific Computing Research	\$1,180	\$1,116	\$732
Basic Energy Sciences		.	
Basic Energy Sciences	\$179,634	\$169,433	\$162,837
Biological and Environmental Research			
Biological and Environmental Research	\$10,657	\$9,301	\$9,106

Laboratory Table (Dollars In Thousands)

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okhaven National Laboratory	FY 2017	FY 2018	FY 2019
High Energy Physics	Enacted	Annualized CR	Request
High Energy Physics	\$69,736	\$63,300	\$68,221
Nuclear Physics	ф09,730	φ03,300	Φ00,22 I
Nuclear Physics	\$195,089	\$191,827	\$189,095
Workforce Development for Teachers and Scientists	φ195,009	φ191,021	\$109,095
Workforce Development for Teachers and Scientists	\$1,763	\$0	\$0
Science Laboratories Infrastructure	\$1,703	φυ	φυ
Science Laboratories Infrastructure	\$1,800	\$1,788	\$15,632
Safeguards and Security	Ψ1,000	Ψ1,700	Ψ10,002
Safeguards and Security	\$12,369	\$12,347	\$12,659
		·	<u> </u>
Total Science	\$472,228	\$449,112	\$458,282
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$216	\$215	\$325
Total Weapons Activities	\$216	\$215	\$325
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$250	\$250	\$250
Total Other Defense Activities	\$250	\$250	\$250
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$3,196	\$3,174	\$2,729
Nuclear Counterterrorism and Incident Response	7-,	7-,	
Nuclear Counterterrorism Incident Response	\$2,916	\$2,896	\$3,900
Global Material Security			
Global Material Security	\$580	\$576	\$577
Material Management and Minimization			
Material Management and Minimization	\$55	\$55	\$371
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$3,879	\$3,853	\$3,820
Total Defense Nuclear Nonproliferation	\$10,626	\$10,554	\$11,397
I Brookhaven National Laboratory	\$491,126	\$466,592	\$475,145

Laboratory Table (Dollars In Thousands)

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Brookhaven Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$4,806	\$4,755	\$4,772
Total Science	\$4,806	\$4,755	\$4,772
Total Brookhaven Site Office	\$4,806	\$4,755	\$4,772

Laboratory Table (Dollars In Thousands)

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sbad Area Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019
Defense Nuclear Nonproliferation	Enacted	Allitualized CK	Request
Material Management and Minimization			
Material Management and Minimization	\$100	\$99	\$1,500
Total Defense Nuclear Nonproliferation	\$100	\$99	\$1,500
Defense Environmental Cleanup			
Waste Isolation Pilot Plant			
Operation and Maintenance	\$0	\$0	\$46,695
Central Characterization Project	\$19,534	\$19,401	\$19,500
Total Waste Isolation Pilot Plant	\$19,534	\$19,401	\$66,195
Program Direction			
Carlsbad	\$12,868	\$12,323	\$12,733
Safeguards and Security			
Waste Isolation Pilot Plant	\$5,200	\$5,164	\$6,580
CB-0101-Economic Assistance to the State of NM			
CB-0101-Economic Assistance to the State of NM	\$26,800	\$26,618	\$0
Total Defense Environmental Cleanup	\$64,402	\$63,506	\$85,508
l Carlsbad Area Office	\$64,502	\$63,605	\$87,008

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ago Operations Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Electricity Delivery and Energy Reliability	Lildotta	7 IIII dall 200 OTC	rtoques
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$74	\$0	\$0
Total Electricity Delivery and Energy Reliability	\$74	\$0	\$0
Nuclear Energy			
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$40	\$400	\$400
Total Nuclear Energy	\$40	\$400	\$400
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Hydrogen & Fuel Cell Technologies	\$6	\$0	\$0
Vehicle Technologies	\$10	\$10	\$0 \$0
	· · · · · · · · · · · · · · · · · · ·		
Total Energy Efficiency and Renewable Energy	\$16	\$10	\$0
Total Energy Efficiency and Renewable Energy	\$16	\$10	\$0
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$31,158	\$27,190	\$28,400
Basic Energy Sciences			
Basic Energy Sciences	\$269,867	\$178,058	\$325,748
Biological and Environmental Research			
Biological and Environmental Research	\$115,488	\$89,550	\$91,133
Fusion Energy Sciences			
Fusion Energy Sciences	\$156,622	\$108,877	\$95,978
High Energy Physics			
High Energy Physics	\$106,215	\$97,873	\$68,410
Nuclear Physics			
Nuclear Physics	\$182,072	\$177,766	\$153,502
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$1,764	\$1,752	\$1,513
Safeguards and Security			
Safeguards and Security	\$45	\$50	\$50
Program Direction			
Program Direction	\$23,614	\$22,835	\$23,721
Total Science	\$886,845	\$703,951	\$788,455
Weapons Activities			
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$1,500	\$1,490	\$2,000
Total Weapons Activities	\$1,500	\$1,490	\$2,000
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Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$50	\$50	\$50

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cago Operations Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Total Other Defense Activities	\$50	\$50	\$50
Departmental Administration Strategic Partnership Projects			
Strategic Partnership Projects	\$200	\$199	\$200
Total Departmental Administration	\$200	\$199	\$200
al Chicago Operations Office	\$888,725	\$706,100	\$791,105

Laboratory Table (Dollars In Thousands)

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nsolidated Business Center	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$530	\$526	\$0
Total Weapons Activities	\$530	\$526	\$0
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$259	\$259	\$259
Total Other Defense Activities	\$259	\$259	\$259
Defense Nuclear Nonproliferation			
Material Management and Minimization			
Material Management and Minimization	\$100	\$99	\$0
Total Defense Nuclear Nonproliferation	\$100	\$99	\$0
Defense Environmental Cleanup			
Closure Sites			
Miamisburg	\$0	\$0	\$1,789
Program Direction			
Consolidated Business Center	\$28,864	\$31,978	\$33,516
Total Defense Environmental Cleanup	\$28,864	\$31,978	\$35,305
al Consolidated Business Center	\$29,753	\$32,862	\$35,564

Laboratory Table (Dollars In Thousands)

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t Tennessee Technology Park (K25)	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Regues
Non-Defense Environmental Cleanup			
Small Sites			
Oak Ridge – ETTP	\$6,000	\$5,959	\$0
Total Non-Defense Environmental Cleanup	\$6,000	\$5,959	\$0
Uranium Enrichment Decon. & Decom. Fund			
Uranium Enrichment D&D Fund			
Pension & comm & Reg Suport Oak Ridge	\$18,772	\$18,645	\$17,258
Oak Ridge	\$194,673	\$193,352	\$151,039
Total Uranium Enrichment D&D Fund	\$213,445	\$211,997	\$168,297
Total Uranium Enrichment Decon. & Decom. Fund	\$213,445	\$211,997	\$168,297
Defense Environmental Cleanup			
Safeguards and Security			
Oak Ridge Reservation	\$15,500	\$15,395	\$14,023
Total Defense Environmental Cleanup	\$15,500	\$15,395	\$14,023
al East Tennessee Technology Park (K25)	\$234,945	\$233,351	\$182,320

Laboratory Table (Dollars In Thousands)

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Energy Technology Engineering Center	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Non-Defense Environmental Cleanup			_
Small Sites			
Small Sites	\$10,459	\$10,388	\$8,038
Total Non-Defense Environmental Cleanup	\$10,459	\$10,388	\$8,038
Total Energy Technology Engineering Center	\$10,459	\$10,388	\$8,038

Laboratory Table (Dollars In Thousands)

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armi National Appalarator Laboratory	FY 2017	FY 2018	FY 2019
rmi National Accelerator Laboratory	Enacted	Annualized CR	Request
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$530	\$341	\$174
Basic Energy Sciences			
Basic Energy Sciences	\$1,424	\$390	\$1,424
High Energy Physics			
High Energy Physics	\$398,992	\$389,513	\$430,311
Nuclear Physics			
Nuclear Physics	\$455	\$30	\$30
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$210	\$0	\$0
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$2,500	\$2,483	\$8,000
Safeguards and Security			
Safeguards and Security	\$5,281	\$5,362	\$5,388
Total Science	\$409,392	\$398,119	\$445,327
tal Fermi National Accelerator Laboratory	\$409,392	\$398,119	\$445,327

Laboratory Table (Dollars In Thousands)

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Fermi Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$2,663	\$2,535	\$2,390
Total Science	\$2,663	\$2,535	\$2,390
Total Fermi Site Office	\$2,663	\$2,535	\$2,390

Laboratory Table (Dollars In Thousands)

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Fernald Environmental Management Project	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Defense Environmental Cleanup			
Closure Sites			
Fernald	\$1,000	\$993	\$1,100
Total Defense Environmental Cleanup	\$1,000	\$993	\$1,100
Total Fernald Environmental Management Project	\$1,000	\$993	\$1,100

Laboratory Table (Dollars In Thousands)

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ernald Site	FY 2017	FY 2018	FY 2019
remaiu Site	Enacted	Annualized CR	Request
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$13,369	\$12,400	\$12,276
Total Other Defense Activities	\$13,369	\$12,400	\$12,276
Total Fernald Site	\$13,369	\$12,400	\$12,276

Laboratory Table (Dollars In Thousands)

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eneral Atomics Site	FY 2017	FY 2018	FY 2019
erierai Atomics Site	Enacted	Annualized CR	Request
Weapons Activities			
Science			
Science Campaign	\$500	\$497	\$0
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$24,520	\$24,353	\$0
Total Weapons Activities	\$25,020	\$24,850	\$0
otal General Atomics Site	\$25,020	\$24,850	\$0

Laboratory Table (Dollars In Thousands)

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den Field Office	FY 2017	FY 2018	FY 201
ieri Fleid Office	Enacted	Annualized CR	Reques
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Resilient Distribution Systems	\$25	\$0	\$
Total Electricity Delivery and Energy Reliability	\$25	\$0	\$
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$40,000	\$4,000	\$5,00
Program Direction	\$23,641	\$23,641	\$20,170
Geothermal Technologies	\$7,578	\$7,578	\$18,62
Hydrogen & Fuel Cell Technologies	\$17,800	\$500	\$17,50
Water Power	\$47,596	\$52,096	\$18,459
Solar Energy	\$48,649	\$2,000	\$21,00
Vehicle Technologies	\$0	\$0	\$9,00
Building Technologies	\$18,401	\$18,276	\$15,20
Federal Energy Management Program	\$1,721	\$1,721	\$650
Weatherization	\$739	\$739	\$
State Energy Program Grants	\$6,900	\$6,900	\$
Advanced Manufacturing	\$48,884	\$48,884	\$17,91
Strategic Programs	\$3,827	\$500	\$
Bioenergy Technologies	\$40,982	\$40,982	\$0
Total Energy Efficiency and Renewable Energy	\$306,718	\$207,817	\$143,52
Total Energy Efficiency and Renewable Energy	\$306,718	\$207,817	\$143,52
Departmental Administration			
Office of Indian Energy			
Office of Indian Energy	\$9,646	\$3,300	\$
Total Departmental Administration	\$9,646	\$3,300	\$
l Golden Field Office	\$316,389	\$211,117	\$143,52

Laboratory Table (Dollars In Thousands)

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Grand Junction Office	FY 2017	FY 2018	FY 2019
Grand Junction Office	Enacted	Annualized CR	Request
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$35,501	\$37,362	\$43,553
Total Other Defense Activities	\$35,501	\$37,362	\$43,553
Total Grand Junction Office	\$35,501	\$37,362	\$43,553

Laboratory Table (Dollars In Thousands)

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nford Site	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Non-Defense Environmental Cleanup			- 1
Fast Flux Test Reactor Facility			
Fast Flux Test Reactor Facility	\$2,240	\$2,225	\$2,240
Total Non-Defense Environmental Cleanup	\$2,240	\$2,225	\$2,240
Defense Environmental Cleanup			
Hanford Site			
Central Plateau Remediation	\$671,304	\$666,745	\$563,473
River Corridor & Other Cleanup Operations	\$143,755	\$142,779	\$89,577
Total Hanford Site	\$815,059	\$809,524	\$653,050
Safeguards and Security			
Richland/Hanford Site	\$74,176	\$73,672	\$86,686
Total Defense Environmental Cleanup	\$889,235	\$883,196	\$739,736
tal Hanford Site	\$891,475	\$885,421	\$741,976

Department Of Energy FY 2019 Congressional Budget Laboratory Table

Laboratory Table (Dollars In Thousands)

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o National Laboratory	FY 2017	FY 2018	FY 2019
Non-Defense Environmental Cleanup	Enacted	Annualized CR	Reques
Small Sites			
Small Sites	\$8,000	\$7,946	\$10,000
Total Non-Defense Environmental Cleanup	\$8,000	\$7,946	\$10,000
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$149	\$0	\$0
Resilient Distribution Systems	\$3,131	\$536	\$0
Cybersecurity for Energy Delivery Systems	\$15,172	\$5,672	\$0
Energy Storage	\$141	\$0 \$0	\$0
Transformer Resilience and Advanced Components Infrastructure Security & Energy Restoration	\$500 \$300	\$0 \$300	\$150 \$0
mirastructure Security & Energy Restoration	· · · · · · · · · · · · · · · · · · ·	\$300	\$0
Total Electricity Delivery and Energy Reliability	\$19,393	\$6,508	\$150
Total Electricity Delivery and Energy Reliability	\$19,393	\$6,508	\$150
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$1,000
CEDS	\$0	\$0	\$19,900
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$20,900
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$20,900
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$44,411	\$39,846	\$14,439
Radiological Facilities Management			
Radiological Facilities Management	\$6,934	\$6,813	\$8,933
Idaho Facilities Management			
Idaho Facilities Management	\$230,415	\$229,298	\$197,200
Idaho Sitewide Safeguards and Security			
Idaho Sitewide Safeguards and Security	\$125,208	\$123,552	\$132,478
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$50,959	\$45,233	\$42,833
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$51,181	\$57,678	\$53,200
International Nuclear Energy Cooperation			
International Nuclear Energy Cooperation	\$597	\$540	\$448
SMR Licensing Technical Support			
SMR Licensing Technical Support	\$525	\$0	\$0
Supercritical Transformational Electric Power Generation			
Supercritical Transformational Electric Power Generation	\$45	\$0	\$0
Total Nuclear Energy	\$510,275	\$502,960	\$449,531

Energy Efficiency and Renewable Energy

Laboratory Table (Dollars In Thousands)

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no National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Energy Efficiency and Renewable Energy	Lilacieu	Allilualized CIV	rteques
Wind Energy	\$811	\$811	\$0
Geothermal Technologies	\$1,773	\$1,773	\$719
Hydrogen & Fuel Cell Technologies	\$4,993	\$625	\$625
Water Power	\$1,088	\$530	\$304
Vehicle Technologies	\$10,695	\$10,695	\$3,675
Federal Energy Management Program	\$400	\$400	\$200
Bioenergy Technologies	\$18,637	\$18,637	\$3,65
Total Energy Efficiency and Renewable Energy	\$38,397	\$33,471	\$9,174
Total Energy Efficiency and Renewable Energy	\$38,397	\$33,471	\$9,174
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$1
Total Nuclear Waste Disposal	\$0	\$0	\$10
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$0	\$70	\$7
Basic Energy Sciences			
Basic Energy Sciences	\$900	\$900	\$90
Fusion Energy Sciences			
Fusion Energy Sciences	\$1,300	\$1,350	\$2,400
Workforce Development for Teachers and Scientists	. ,		. ,
Workforce Development for Teachers and Scientists	\$344	\$0	\$(
Total Science	\$2,544	\$2,320	\$3,370
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$3,456	\$3,433	\$3,36
Infrastructure and Operations	7-,	70,100	+=,==
Infrastructure and Operations	\$720	\$715	\$(
Total Weapons Activities	\$4,176	\$4,148	\$3,36
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$150	\$150	\$150
Total Other Defense Activities	\$150	\$150	\$150
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$26,385	\$26,206	\$6,82
Nuclear Counterterrorism and Incident Response	+ =0,000	+	Ţ0,0 2
Nuclear Counterterrorism Incident Response	\$3,745	\$3,720	\$4,100
Global Material Security	ψ0,1 40	ΨΟ,1 ΔΟ	ψ-, ι Ο (
Global Material Security	\$8,519	\$8,461	\$8,824
Global Material Occurry	Ψ0,519	φυ,τυ ι	Ψ0,02

Laboratory Table (Dollars In Thousands)

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aho National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Material Management and Minimization			
Material Management and Minimization	\$40,287	\$40,013	\$35,024
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$2,178	\$2,163	\$2,266
Total Defense Nuclear Nonproliferation	\$81,114	\$80,563	\$57,039
Naval Reactors			
Naval Reactors Program			
Naval Reactors Program	\$155,614	\$154,557	\$195,605
Total Naval Reactors	\$155,614	\$154,557	\$195,605
Defense Environmental Cleanup			
Idaho National Laboratory			
Idaho Community and Regulatory Support	\$3,000	\$2,980	\$3,200
Idaho Clean-up and Waste Disposition	\$379,088	\$376,513	\$346,026
Total Idaho National Laboratory	\$382,088	\$379,493	\$349,226
Total Defense Environmental Cleanup	\$382,088	\$379,493	\$349,226
otal Idaho National Laboratory	\$1,201,751	\$1,172,116	\$1,098,523

Laboratory Table (Dollars In Thousands)

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o Operations Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Electricity Delivery and Energy Reliability	Lilacted	7 timadil2ca Ort	rtoques
Electricity Delivery and Energy Reliability			
Transmission Permitting and Technical Assistance	\$0	\$46	\$25
Total Electricity Delivery and Energy Reliability	\$0	\$46	\$25
Nuclear Energy			
University Research Program			
University Research	\$4,984	\$4,898	\$0
Fuel Cycle R & D			
Fuel Cycle R & D	\$51,297	\$53,456	\$26,374
Radiological Facilities Management			
Radiological Facilities Management	\$43	\$42	\$42
Idaho Facilities Management			
Idaho Facilities Management	\$5,800	\$5,500	\$5,500
Idaho Sitewide Safeguards and Security			
Idaho Sitewide Safeguards and Security	\$3,673	\$3,100	\$3,100
Program Direction-NE			
Program Direction-NE	\$33,122	\$33,702	\$33,702
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$13,821	\$24,789	\$45,025
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$36,424	\$23,662	\$72,630
International Nuclear Energy Cooperation			
International Nuclear Energy Cooperation	\$1,265	\$1,379	\$1,285
SMR Licensing Technical Support			
SMR Licensing Technical Support	\$94,178	\$93,163	\$0
Supercritical Transformational Electric Power Generation			
Supercritical Transformational Electric Power Generation	\$36	\$0	\$0
Total Nuclear Energy	\$244,643	\$243,691	\$187,658
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$2,940
Total Nuclear Waste Disposal	\$0	\$0	\$2,940
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$400	\$400	\$400
Total Other Defense Activities	\$400	\$400	\$400
Departmental Administration			
Strategic Partnership Projects			
Strategic Partnership Projects	\$1,000	\$993	\$1,000
Total Departmental Administration	\$1,000	\$993	\$1,000
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Defense Environmental Cleanup

Laboratory Table (Dollars In Thousands)

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Idaha Operations Office	FY 2017	FY 2018	FY 2019
Idaho Operations Office	Enacted	Annualized CR	Request
Program Direction			_
Idaho	\$6,907	\$7,623	\$7,849
Total Defense Environmental Cleanup	\$6,907	\$7,623	\$7,849
Total Idaho Operations Office	\$252,950	\$252,753	\$199,872

Laboratory Table (Dollars In Thousands)

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nsas City National Security Complex (KCNSC)	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$307,657	\$305,568	\$569,279
Science			
Science Campaign	\$776	\$771	\$0
Engineering			
Engineering Campaign	\$2,878	\$2,858	\$3,794
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$500	\$497	\$750
Defense Nuclear Security			
Defense Nuclear Security	\$11,527	\$11,449	\$12,534
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$5,928	\$5,888	\$5,882
Infrastructure and Operations			
Infrastructure and Operations	\$139,580	\$138,632	\$141,600
Secure Transportation Asset			
Secure Transportation Asset	\$20,907	\$20,765	\$18,497
Advanced Manufacturing Development			
Advanced Manufacturing Development	\$13,567	\$13,475	\$17,913
Total Weapons Activities	\$503,320	\$499,903	\$770,249
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$10	\$10	\$10
Total Other Defense Activities	\$10	\$10	\$10
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$355	\$353	\$402
Nuclear Counterterrorism and Incident Response	,,,,,	****	*
Nuclear Counterterrorism Incident Response	\$27,657	\$27,469	\$23,900
Nonproliferation and Arms Control	, , , , , ,	, ,	, -,
Nonproliferation and Arms Control	\$2,408	\$2,392	\$2,266
Total Defense Nuclear Nonproliferation	\$30,420	\$30,214	\$26,568
al Kansas City National Security Complex (KCNSC)	\$533,750	\$530,127	\$796,827

Laboratory Table (Dollars In Thousands)

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anna City Cita Office	FY 2017	FY 2018	FY 2019
nsas City Site Office	Enacted	Annualized CR	Request
Nuclear Energy			
Idaho Facilities Management			
Idaho Facilities Management	\$250	\$0	\$0
Total Nuclear Energy	\$250	\$0	\$0
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$236,044	\$234,441	\$0
Total Weapons Activities	\$236,044	\$234,441	\$0
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$6,578	\$6,533	\$7,433
Total Federal Salaries and Expenses	\$6,578	\$6,533	\$7,433
al Kansas City Site Office	\$242,872	\$240,974	\$7,433

Laboratory Table (Dollars In Thousands)

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nolls Atomic Power Laboratory	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Naval Reactors			
Naval Reactors Program			
Naval Reactors Program	\$630,981	\$626,696	\$740,237
Total Naval Reactors	\$630,981	\$626,696	\$740,237
Total Knolls Atomic Power Laboratory	\$630,981	\$626,696	\$740,237

Laboratory Table (Dollars In Thousands)

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rence Berkeley National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Non-Defense Environmental Cleanup	Lilacted	Allitualized CR	Reques
Small Sites			
Small Sites	\$9,200	\$9,138	\$0
Total Non-Defense Environmental Cleanup	\$9,200	\$9,138	\$0
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$3,180	\$2,760	\$578
Resilient Distribution Systems	\$2,449	\$1,537	\$250
Cybersecurity for Energy Delivery Systems	\$1,428	\$1,050	\$0
Energy Storage	\$1,269	\$0	\$0
Transformer Resilience and Advanced Components	\$276	\$0	\$50
Transmission Permitting and Technical Assistance	\$3,214	\$2,700	\$1,995
Infrastructure Security & Energy Restoration	\$175	\$175	\$0
Total Electricity Delivery and Energy Reliability	\$11,991	\$8,222	\$2,873
Total Electricity Delivery and Energy Reliability	\$11,991	\$8,222	\$2,873
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$100
CEDS	\$0	\$0	\$1,050
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$1,150
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$1,150
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$3,547	\$3,699	\$572
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$50	\$0	\$0
Total Nuclear Energy	\$3,597	\$3,699	\$572
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$2,102	\$2,102	\$636
Geothermal Technologies	\$3,570	\$3,570	\$3,721
Hydrogen & Fuel Cell Technologies	\$5,689	\$1,945	\$1,695
Solar Energy	\$6,961	\$1,300	\$0
Vehicle Technologies	\$15,318	\$15,318	\$4,700
Building Technologies	\$38,277	\$38,017	\$9,026
Federal Energy Management Program	\$3,803	\$3,803	\$1,025
Weatherization	\$150	\$150	\$0
State Energy Program Grants	\$562	\$562	\$0
Advanced Manufacturing	\$4,500	\$4,500	\$4,500
Strategic Programs	\$1,418	\$1,763	\$0
Bioenergy Technologies	\$10,316	\$10,316	\$3,322
Total Energy Efficiency and Renewable Energy	\$92,666	\$83,346	\$28,625

Laboratory Table (Dollars In Thousands)

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rence Berkeley National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Total Energy Efficiency and Renewable Energy	\$92,666	\$83,346	\$28,625
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$840
Total Nuclear Waste Disposal	\$0	\$0	\$840
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$147,542	\$149,833	\$146,015
Basic Energy Sciences			
Basic Energy Sciences	\$168,617	\$148,912	\$164,458
Biological and Environmental Research			
Biological and Environmental Research	\$149,272	\$138,789	\$125,698
High Energy Physics			
High Energy Physics	\$67,319	\$76,449	\$64,874
Nuclear Physics			
Nuclear Physics	\$22,030	\$21,418	\$21,465
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$1,298	\$0	\$0
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$28,561	\$19,428	\$22,049
Safeguards and Security			
Safeguards and Security	\$7,169	\$7,209	\$7,134
Total Science	\$591,808	\$562,038	\$551,693
Weapons Activities			
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$650	\$646	\$650
Infrastructure and Operations			
Infrastructure and Operations	\$2,400	\$2,384	\$0
Total Weapons Activities	\$3,050	\$3,030	\$650
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$7,726	\$7,674	\$8,749
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$0	\$0	\$600
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$960	\$953	\$854
Total Defense Nuclear Nonproliferation	\$8,686	\$8,627	\$10,203
Departmental Administration			
Strategic Partnership Projects			
Strategic Partnership Projects	\$3,500	\$3,476	\$3,500
Total Departmental Administration	\$3,500	\$3,476	\$3,500

Laboratory Table (Dollars In Thousands)

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	FY 2017	FY 2018	FY 2019
vrence Berkeley National Laboratory	Enacted	Annualized CR	Request
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Storage	\$8,212	\$8,156	\$0
Cross Cutting Research	\$2,091	\$2,077	\$0
Total CCS and Power Systems	\$10,303	\$10,233	\$0
Advanced Coal Energy Systems and CCUS			
Carbon Capture Utilization and Storage	\$0	\$0	\$1,500
Natural Gas Technologies			
Natural Gas Technologies	\$1,400	\$1,390	\$0
Total Fossil Energy Research and Development	\$11,703	\$11,623	\$1,500
al Lawrence Berkeley National Laboratory	\$736,201	\$693,199	\$601,606

Laboratory Table (Dollars In Thousands)

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rence Livermore National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Electricity Delivery and Energy Reliability	Znactod	7 iiii danzoa ort	rtoquoot
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$2,178	\$1,725	\$1,156
Resilient Distribution Systems	\$1,913	\$1,466	\$0
Cybersecurity for Energy Delivery Systems	\$4,075	\$1,900	\$0
Energy Storage	\$386	\$0	\$0
Transformer Resilience and Advanced Components	\$219	\$0	\$0
Infrastructure Security & Energy Restoration	\$200	\$200	\$0
Total Electricity Delivery and Energy Reliability	\$8,971	\$5,291	\$1,156
Total Electricity Delivery and Energy Reliability	\$8,971	\$5,291	\$1,156
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$500
CEDS	\$0	\$0	\$1,900
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$2,400
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$2,400
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$651	\$992	\$142
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$850	\$475	\$475
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$50	\$58	\$50
Total Nuclear Energy	\$1,551	\$1,525	\$667
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$902	\$902	\$615
Geothermal Technologies	\$1,180	\$1,180	\$165
Hydrogen & Fuel Cell Technologies	\$2,585	\$1,412	\$2,162
Solar Energy	\$1,789	\$0	\$0
Vehicle Technologies	\$3,974	\$3,974	\$1,430
Building Technologies	\$108	\$107	\$23
Advanced Manufacturing	\$5,829	\$5,829	\$6,000
Bioenergy Technologies	\$963	\$963	\$0
Total Energy Efficiency and Renewable Energy	\$17,330	\$14,367	\$10,395
Total Energy Efficiency and Renewable Energy	\$17,330	\$14,367	\$10,395
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$3,171	\$5,249	\$4,445
Basic Energy Sciences			
Basic Energy Sciences	\$2,094	\$926	\$926

Laboratory Table (Dollars In Thousands)

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\$14,733 \$7,734 \$1,205 \$1,453
\$7,734 \$1,205
\$7,734 \$1,205
\$1,205
\$1,205
\$1,453
\$1,453
\$0
\$30,496
\$351,459
\$147,207
\$41,523
\$286,931
\$205,295
\$66,389
\$14,122
\$189,715
\$10,900
\$1,313,541
\$3,050
\$3,050
\$50,531
\$44,000
\$6,756

Laboratory Table (Dollars In Thousands)

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vrence Livermore National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Total Defense Nuclear Nonproliferation	\$114,555	\$113,778	\$118,044
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Capture	\$2,983	\$2,963	\$0
Advanced Energy Systems	\$149	\$148	\$0
Cross Cutting Research	\$300	\$298	\$0
Total CCS and Power Systems	\$3,432	\$3,409	\$0
Advanced Coal Energy Systems and CCUS			
Carbon Capture Utilization and Storage	\$0	\$0	\$1,450
Total Fossil Energy Research and Development	\$3,432	\$3,409	\$1,450
Defense Environmental Cleanup			
NNSA Sites			
NNSA Sites	\$1,147	\$1,140	\$1,175
Total Defense Environmental Cleanup	\$1,147	\$1,140	\$1,175
al Lawrence Livermore National Laboratory	\$1,454,806	\$1,438,366	\$1,482,374

Laboratory Table (Dollars In Thousands)

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exington Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Other Defense Activities			
Environment, Health, Safety and Security Environment, Health, Safety and Security	\$200	\$200	\$200
Total Other Defense Activities	\$200	\$200	\$200
	·		<u> </u>
otal Lexington Office	\$200	\$200	\$200

Laboratory Table (Dollars In Thousands)

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vermore Site Office	FY 2017	FY 2018	FY 2019
Livermore Site Office	Enacted	Annualized CR	Request
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$846	\$840	\$0
Total Weapons Activities	\$846	\$840	\$0
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$17,894	\$17,772	\$18,645
Total Federal Salaries and Expenses	\$17,894	\$17,772	\$18,645
Total Livermore Site Office	\$18,740	\$18,612	\$18,645

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Laboratory Table
(Dollars In Thousands)

Alamos National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Electricity Delivery and Energy Reliability		7	
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$3,980	\$1,841	\$1,44
Resilient Distribution Systems	\$1,567	\$1,873	\$60
Cybersecurity for Energy Delivery Systems	\$2,632	\$200	\$
Energy Storage	\$34	\$0	\$
Total Electricity Delivery and Energy Reliability	\$8,213	\$3,914	\$2,04
Total Electricity Delivery and Energy Reliability	\$8,213	\$3,914	\$2,04
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
CEDS	\$0	\$0	\$20
-	· · ·	<u> </u>	
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$20
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$9,622	\$11,888	\$3,00
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$2,449	\$3,850	\$2,35
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$117	\$0	\$
Total Nuclear Energy	\$12,188	\$15,738	\$5,35
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$193	\$193	\$
Geothermal Technologies	\$2,338	\$2,338	\$54
Hydrogen & Fuel Cell Technologies	\$8,573	\$3,310	\$2,71
Solar Energy	\$430	\$800	\$
Vehicle Technologies	\$1,675	\$1,675	\$11
Building Technologies	\$293	\$291	\$5
Bioenergy Technologies	\$7,619	\$7,619	\$2,30
Total Energy Efficiency and Renewable Energy	\$21,121	\$16,226	\$5,72
Total Energy Efficiency and Renewable Energy	\$21,121	\$16,226	\$5,72
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$84
Total Nuclear Waste Disposal	\$0	\$0	\$84
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$1,620	\$3,003	\$2,51
Basic Energy Sciences	7 - , - 20	, -,	T-, T.
Basic Energy Sciences	\$23,635	\$17,513	\$17,00
Sacro Energy Colonicos	Ψ20,000	Ψ11,010	ψ17,00

Laboratory Table (Dollars In Thousands)

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Alamos National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Biological and Environmental Research			· ·
Biological and Environmental Research	\$28,182	\$23,634	\$17,254
Fusion Energy Sciences			
Fusion Energy Sciences	\$3,121	\$3,390	\$3,090
High Energy Physics			
High Energy Physics	\$2,100	\$1,930	\$1,400
Nuclear Physics			
Nuclear Physics	\$10,979	\$9,066	\$9,292
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$448	\$0	\$0
Total Science	\$70,085	\$58,536	\$50,559
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$619,653	\$615,445	\$713,231
Science			
Science Campaign	\$153,089	\$152,049	\$190,886
Engineering			
Engineering Campaign	\$27,369	\$27,183	\$47,048
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$17,610	\$17,490	\$15,000
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$202,574	\$201,198	\$181,011
Defense Nuclear Security			
Defense Nuclear Security	\$99,951	\$99,272	\$110,340
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$15,410	\$15,305	\$17,716
Infrastructure and Operations			
Infrastructure and Operations	\$532,542	\$528,925	\$623,132
Advanced Manufacturing Development	#40.000	¢40.700	#7.050
Advanced Manufacturing Development	\$10,866	\$10,792	\$7,950
Total Weapons Activities	\$1,679,064	\$1,667,659	\$1,906,314
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$95	\$95	\$95
Total Other Defense Activities	\$95	\$95	\$95
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$109,358	\$108,615	\$115,733
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$45,667	\$45,357	\$49,200
Global Material Security			
Global Material Security	\$32,530	\$32,309	\$35,619
Material Management and Minimization			
Material Management and Minimization	\$39,316	\$39,049	\$51,685

Laboratory Table (Dollars In Thousands)

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Alamos National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Regues
Nonproliferation and Arms Control	Endoted	7 iiiidan26a 6i t	rtoquoo
Nonproliferation and Arms Control	\$27,262	\$27,077	\$23,484
Total Defense Nuclear Nonproliferation	\$254,133	\$252,407	\$275,721
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Capture	\$941	\$935	\$0
Carbon Storage	\$7,530	\$7,479	\$0
Cross Cutting Research	\$400	\$397	\$0
Total CCS and Power Systems	\$8,871	\$8,811	\$0
Advanced Coal Energy Systems and CCUS			
Carbon Capture Utilization and Storage	\$0	\$0	\$1,450
Natural Gas Technologies			
Natural Gas Technologies	\$860	\$854	\$0
Total Fossil Energy Research and Development	\$9,731	\$9,665	\$1,450
Defense Environmental Cleanup			
NNSA Sites			
NNSA Sites	\$190,606	\$189,312	\$188,235
Total Defense Environmental Cleanup	\$190,606	\$189,312	\$188,235
l Los Alamos National Laboratory	\$2,245,236	\$2,213,552	\$2,436,530

Laboratory Table (Dollars In Thousands)

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s Alamos Site Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$1,405	\$1,395	\$0
Total Weapons Activities	\$1,405	\$1,395	\$0
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$15,253	\$15,149	\$17,251
Total Federal Salaries and Expenses	\$15,253	\$15,149	\$17,251
otal Los Alamos Site Office	\$16,658	\$16,544	\$17,251

Laboratory Table (Dollars In Thousands)

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Miamiahura Cita	FY 2017	FY 2018	FY 2019
Miamisburg Site	Enacted	Annualized CR	Request
Non-Defense Environmental Cleanup			
Small Sites			
Southwest Experimental Fast Oxide Reactor	\$5,500	\$5,463	\$0
Total Non-Defense Environmental Cleanup	\$5,500	\$5,463	\$0
Total Miamisburg Site	\$5,500	\$5,463	\$0

Laboratory Table (Dollars In Thousands)

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Moab Site	FY 2017	FY 2018 Annualized CR	FY 2019 Request
	Enacted		
Non-Defense Environmental Cleanup			
Small Sites			
Small Sites	\$37,884	\$37,626	\$34,993
Total Non-Defense Environmental Cleanup	\$37,884	\$37,626	\$34,993
Total Moab Site	\$37,884	\$37,626	\$34,993

Laboratory Table (Dollars In Thousands)

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Morgantown Office	FY 2017	FY 2018	FY 2019
Morgantown Office	Enacted	Annualized CR	Request
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$12,500	\$16,211	\$18,274
Total Other Defense Activities	\$12,500	\$16,211	\$18,274
Total Morgantown Office	\$12,500	\$16,211	\$18,274

Laboratory Table (Dollars In Thousands)

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Mound Site	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Other Defense Activities			•
Office of Legacy Management			
Legacy Management	\$15,283	\$14,500	\$14,446
Total Other Defense Activities	\$15,283	\$14,500	\$14,446
Total Mound Site	\$15,283	\$14,500	\$14,446

Laboratory Table (Dollars In Thousands)

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onal Energy Technology Lab	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019
Electricity Delivery and Energy Reliability	Enacieu	Allilualized CR	Request
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$4,202	\$8,104	\$0
Resilient Distribution Systems	\$3,770	\$7,995	\$0
Cybersecurity for Energy Delivery Systems	\$8,671	\$17,524	\$0
Transformer Resilience and Advanced Components	\$106	\$4,845	\$500
Transmission Permitting and Technical Assistance	\$1,494	\$1,200	\$1,250
Infrastructure Security & Energy Restoration	\$647	\$647	\$0
Program Direction	\$6,484	\$6,873	\$4,688
Total Electricity Delivery and Energy Reliability	\$25,374	\$47,188	\$6,438
Total Electricity Delivery and Energy Reliability	\$25,374	\$47,188	\$6,438
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$1,000
CEDS	\$0	\$0	\$25,709
Program Direction	\$0	\$0	\$2,894
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$29,603
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$29,603
Nuclear Energy			
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$50	\$50	\$0
Total Nuclear Energy	\$50	\$50	\$0
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Program Direction	\$10,411	\$10,411	\$0
Geothermal Technologies	\$35,309	\$35,309	\$0
Hydrogen & Fuel Cell Technologies	\$2,320	\$0	\$0
Solar Energy	\$291	\$0	\$0
Vehicle Technologies	\$101,442	\$101,442	\$0
Building Technologies	\$13,823	\$13,729	\$50
Bioenergy Technologies	\$231	\$231	\$200
Total Energy Efficiency and Renewable Energy	\$163,827	\$161,122	\$250
Total Energy Efficiency and Renewable Energy	\$163,827	\$161,122	\$250
Science			
Basic Energy Sciences			
Basic Energy Sciences	\$200	\$0	\$0
Total Science	\$200	\$0	\$0
Total Science Weapons Activities	\$200	\$0	\$0
	\$200	\$0	\$0

Laboratory Table (Dollars In Thousands)

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onal Energy Technology Lab	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Science	Liladida	7 HINGAILEGA OTT	rtoquot
Science Campaign	\$1,080	\$1,073	\$(
Engineering	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,-	•
Engineering Campaign	\$345	\$343	\$(
Advanced Simulation & Computing	75.5	****	•
Advanced Simulation & Computing Campaign	\$250	\$248	\$(
Infrastructure and Operations	7	7-11	•
Infrastructure and Operations	\$408	\$405	\$
Advanced Manufacturing Development	7.55	****	•
Advanced Manufacturing Development	\$575	\$571	\$
Total Weapons Activities	\$14,342	\$14,245	\$21,69
Departmental Administration			
Strategic Partnership Projects			
Strategic Partnership Projects	\$150	\$149	\$150
Total Departmental Administration	\$150	\$149	\$15
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Capture	\$93,257	\$92,623	\$
Carbon Storage	\$74,924	\$74,415	\$
Advanced Energy Systems	\$100,304	\$99,623	\$(
Cross Cutting Research	\$32,711	\$32,489	\$(
STEP (Supercritical CO2)	\$24,000	\$23,837	\$
NETL Coal R&D	\$53,000	\$52,640	\$(
Total CCS and Power Systems	\$378,196	\$375,627	\$
Advanced Coal Energy Systems and CCUS			
Advanced Energy Systems	\$0	\$0	\$172,33
Carbon Capture Utilization and Storage	\$0	\$0	\$32,95
STEP (Supercritical CO2)	\$0	\$0	\$25,000
NETL Coal Research and Development	\$0	\$0	\$50,000
Crosscutting Research	\$0	\$0	\$53,10
Total Advanced Coal Energy Systems and CCUS Natural Gas Technologies	\$0	\$0	\$333,386
Natural Gas Technologies	\$35,587	\$35,346	\$5,500
Program Direction			
NETL Program Direction	\$28,266	\$28,074	\$31,00
Unconventional FE Technologies from Petroleum – Oil			
Unconventional FE Technologies from Petroleum – Oil	\$19,229	\$19,098	\$14,00
NETL Research and Operations			
NETL Research and Operations	\$43,000	\$42,708	\$40,00
NETL Infrastructure			
NETL Infrastructure	\$40,500	\$40,226	\$38,000
Fossil Fuel Pilots			
	\$50,000	\$49,660	\$(

Laboratory Table (Dollars In Thousands)

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ational Energy Technology Lab	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019
Total Fossil Energy Research and Development	\$594,778	\$590,739	Request \$461,886
Strategic Petroleum Reserve SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$456	\$453	\$456
Total Strategic Petroleum Reserve	\$456	\$453	\$456
ntal National Energy Technology Lab	\$799,177	\$813,946	\$520,481

Laboratory Table (Dollars In Thousands)

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onal Renewable Energy Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Electricity Delivery and Energy Reliability	Enacted	Allilualized CR	Neques
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$1,097	\$600	\$0
Resilient Distribution Systems	\$4,201	\$4,826	\$250
Cybersecurity for Energy Delivery Systems	\$1,104	\$1,050	\$0
Energy Storage	\$1,185	\$0	\$0
Transformer Resilience and Advanced Components	\$100	\$0	\$0
Transmission Permitting and Technical Assistance	\$777	\$443	\$220
Total Electricity Delivery and Energy Reliability	\$8,464	\$6,919	\$470
Total Electricity Delivery and Energy Reliability	\$8,464	\$6,919	\$470
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
CEDS	\$0	\$0	\$1,050
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$1,050
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$28,187	\$28,187	\$14,676
Facilities and Infrastructure (NREL)	\$92,000	\$91,375	\$90,000
Geothermal Technologies	\$3,479	\$3,479	\$718
Hydrogen & Fuel Cell Technologies	\$19,999	\$7,946	\$7,746
Water Power	\$8,647	\$7,747	\$2,254
Solar Energy	\$28,657	\$47,869	\$6,500
Vehicle Technologies	\$28,642	\$28,642	\$8,523
Building Technologies	\$19,640	\$19,507	\$1,342
Federal Energy Management Program	\$6,563	\$6,563	\$2,872
Weatherization	\$1,124	\$1,124	\$0
State Energy Program Grants	\$730	\$730	\$0
Advanced Manufacturing	\$250	\$250	\$0
Strategic Programs	\$6,309	\$8,083	\$0
Bioenergy Technologies	\$57,748	\$57,748	\$13,700
Total Energy Efficiency and Renewable Energy	\$301,975	\$309,250	\$148,331
Total Energy Efficiency and Renewable Energy	\$301,975	\$309,250	\$148,331
Science			
Basic Energy Sciences			
Basic Energy Sciences	\$12,459	\$7,632	\$6,947
Biological and Environmental Research	Ψ12,100	ψ1,002	ΨΟ,ΟΤΙ
Biological and Environmental Research	\$500	\$604	\$580
Workforce Development for Teachers and Scientists	ψ300	ψ00 4	φ300
Workforce Development for Teachers and Scientists	\$1,208	\$0	\$0
Total Science	\$14,167	\$8,236	\$7,527
Departmental Administration	, , -		. ,
Office of Indian Energy			
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Office of Indian Energy	\$1,950	\$2,583	\$800

Department Of Energy FY 2019 Congressional Budget Laboratory Table

Laboratory Table (Dollars In Thousands)

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ional Renewable Energy Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Strategic Partnership Projects			<u> </u>
Strategic Partnership Projects	\$500	\$497	\$500
Total Departmental Administration	\$2,450	\$3,080	\$1,300
Fossil Energy Research and Development			
Natural Gas Technologies			
Natural Gas Technologies	\$61	\$61	\$0
Total Fossil Energy Research and Development	\$61	\$61	\$0
al National Renewable Energy Laboratory	\$327,117	\$327,546	\$158,678

Laboratory Table (Dollars In Thousands)

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Naval Petroleum Reserve No 1	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Naval Petroleum and Oil Shale Reserves			_
Naval Petroleum and Oil Shale Reserves			
Productions Operations	\$12,580	\$12,494	\$18,550
Management	\$1,000	\$993	\$1,000
Total Naval Petroleum and Oil Shale Reserves	\$13,580	\$13,487	\$19,550
Total Naval Petroleum and Oil Shale Reserves	\$13,580	\$13,487	\$19,550
Total Naval Petroleum Reserve No 1	\$13,580	\$13,487	\$19,550

Laboratory Table (Dollars In Thousands)

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aval Petroleum Reserve No 3	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Naval Petroleum and Oil Shale Reserves		, <u></u>	
Naval Petroleum and Oil Shale Reserves			
Productions Operations	\$50	\$50	\$0
Management	\$250	\$248	\$0
Total Naval Petroleum and Oil Shale Reserves	\$300	\$298	\$0
Total Naval Petroleum and Oil Shale Reserves	\$300	\$298	\$0
otal Naval Petroleum Reserve No 3	\$300	\$298	\$0

Laboratory Table (Dollars In Thousands)

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val Reactors Laboratory Field Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reguest
Weapons Activities			110 40000
Infrastructure and Operations			
Infrastructure and Operations	\$960	\$953	\$0
Total Weapons Activities	\$960	\$953	\$0
Naval Reactors			
Program Direction			
Program Direction	\$19,700	\$19,567	\$21,200
Total Naval Reactors	\$19,700	\$19,567	\$21,200
tal Naval Reactors Laboratory Field Office	\$20,660	\$20,520	\$21,200

Laboratory Table (Dollars In Thousands)

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val Research Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities			
Science			
Science Campaign	\$4,074	\$4,046	\$4,050
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$8,500	\$8,442	\$0
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$750	\$745	\$0
Total Weapons Activities	\$13,324	\$13,233	\$4,050
al Naval Research Laboratory	\$13,324	\$13,233	\$4,050

Laboratory Table (Dollars In Thousands)

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ada Field Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Nuclear Energy		720204 0.11	. 10 9 00 0
Program Direction-NE			
Program Direction-NE	\$2,536	\$2,517	\$0
Total Nuclear Energy	\$2,536	\$2,517	\$0
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$40,736
Total Nuclear Waste Disposal	\$0	\$0	\$40,736
Weapons Activities			
Defense Nuclear Security			
Defense Nuclear Security	\$71,634	\$71,148	\$74,470
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$3,892	\$3,865	\$0
Infrastructure and Operations			
Infrastructure and Operations	\$23	\$23	\$0
Total Weapons Activities	\$75,549	\$75,036	\$74,470
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$15	\$15	\$15
Total Other Defense Activities	\$15	\$15	\$15
Defense Nuclear Nonproliferation			
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$50	\$50	\$0
Total Defense Nuclear Nonproliferation	\$50	\$50	\$0
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$17,169	\$17,052	\$17,653
Total Federal Salaries and Expenses	\$17,169	\$17,052	\$17,653
Defense Environmental Cleanup			
Program Direction			
Nevada	\$2,512	\$2,810	\$2,898
NNSA Sites		. ,	. ,
NNSA Sites	\$14,940	\$14,839	\$22,398
Total Defense Environmental Cleanup	\$17,452	\$17,649	\$25,296
I Nevada Field Office	\$112,771	\$112,319	\$158,170
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Laboratory Table (Dollars In Thousands)

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ada National Security Site	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities			·
Directed Stockpile Work			
Directed Stockpile Work	\$47,285	\$46,964	\$48,450
Science			
Science Campaign	\$50,400	\$50,058	\$71,168
Defense Nuclear Security			
Defense Nuclear Security	\$13,000	\$12,912	\$0
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$4,191	\$4,163	\$4,337
Infrastructure and Operations			
Infrastructure and Operations	\$193,492	\$192,178	\$233,907
Secure Transportation Asset			
Secure Transportation Asset	\$311	\$309	\$20
Total Weapons Activities	\$308,679	\$306,584	\$357,882
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$22,337	\$22,185	\$26,295
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$55,823	\$55,444	\$60,905
Global Material Security			
Global Material Security	\$1,168	\$1,160	\$1,025
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$1,001	\$994	\$1,038
Total Defense Nuclear Nonproliferation	\$80,329	\$79,783	\$89,263
Defense Environmental Cleanup			
NNSA Sites			
NNSA Sites	\$47,236	\$46,915	\$37,738
Total Defense Environmental Cleanup	\$47,236	\$46,915	\$37,738
Il Nevada National Security Site	\$436,244	\$433,282	\$484,883

Laboratory Table (Dollars In Thousands)

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Nevada Operations Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			_
Basic Energy Sciences			
Basic Energy Sciences	\$145	\$0	\$0
Total Science	\$145	\$0	\$0
Total Nevada Operations Office	\$145	\$ 0	\$0

Laboratory Table (Dollars In Thousands)

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w Brunswick Laboratory	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Defense Nuclear Nonproliferation			
Global Material Security			
Global Material Security	\$86	\$84	\$88
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$120	\$119	\$140
Total Defense Nuclear Nonproliferation	\$206	\$203	\$228
otal New Brunswick Laboratory	\$206	\$203	\$228

Laboratory Table (Dollars In Thousands)

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lew Brunswick Laboratory Program Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$2,493	\$1,511	\$0
Total Science	\$2,493	\$1,511	\$0
Total New Brunswick Laboratory Program Office	\$2,493	\$1,511	\$0

Laboratory Table (Dollars In Thousands)

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NSA Albuquerque Complex	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities	Litatioa	7 iiii dan 200 Oi t	rioquooi
Directed Stockpile Work			
Directed Stockpile Work	\$134,323	\$133,411	\$338,952
Science			
Science Campaign	\$29,758	\$29,556	\$49,552
Engineering			
Engineering Campaign	\$3,980	\$3,953	\$23,108
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$16,485	\$16,373	\$403
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$20,629	\$20,489	\$20,750
Defense Nuclear Security			
Defense Nuclear Security	\$7,385	\$7,335	\$7,614
Infrastructure and Operations			
Infrastructure and Operations	\$18,642	\$18,516	\$71,483
Secure Transportation Asset	***	004.440	400.075
Secure Transportation Asset	\$82,005	\$81,449	\$88,075
Advanced Manufacturing Development	0004	0074	# 4.400
Advanced Manufacturing Development	\$981	\$974	\$4,483
Total Weapons Activities	\$314,188	\$312,056	\$604,420
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$1,000	\$1,000	\$1,000
Enterprise Assessments			
Enterprise Assessments	\$250	\$150	\$150
Total Enterprise Assessments	\$250	\$150	\$150
Total Other Defense Activities	\$1,250	\$1,150	\$1,150
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$31,568	\$31,354	\$35,749
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$5,049	\$5,015	\$0
Global Material Security			
Global Material Security	\$89,613	\$89,004	\$89,534
Material Management and Minimization			
Material Management and Minimization	\$22,261	\$22,110	\$1,545
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$3,005	\$2,985	\$2,439
·			
Nonproliferation Construction			
·	\$5,276	\$5,240	\$23,800

Departmental Administration

Laboratory Table (Dollars In Thousands)

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ISA Albuquerque Complex	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Strategic Partnership Projects	Lilacieu	Allilualized CIX	rtequesi
Strategic Partnership Projects	\$8,500	\$8,442	\$8,500
Total Departmental Administration	\$8,500	\$8,442	\$8,500
Defense Environmental Cleanup			
Program Direction			
Los Alamos	\$5,358	\$4,995	\$5,164
NNSA Sites			
NNSA Sites	\$3,643	\$3,618	\$3,923
Total Defense Environmental Cleanup	\$9,001	\$8,613	\$9,087
tal NNSA Albuquerque Complex	\$489,711	\$485,969	\$776,224

Laboratory Table (Dollars In Thousands)

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SA Production Office (NPO)	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reguest
Weapons Activities			- 1
Directed Stockpile Work			
Directed Stockpile Work	\$0	\$0	\$1,250
Infrastructure and Operations			
Infrastructure and Operations	\$2,705	\$2,686	\$0
Total Weapons Activities	\$2,705	\$2,686	\$1,250
Defense Nuclear Nonproliferation			
Material Management and Minimization			
Material Management and Minimization	\$24,020	\$23,857	\$26,500
Total Defense Nuclear Nonproliferation	\$24,020	\$23,857	\$26,500
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$25,116	\$24,945	\$26,564
Total Federal Salaries and Expenses	\$25,116	\$24,945	\$26,564
al NNSA Production Office (NPO)	\$51,841	\$51,488	\$54,314

Laboratory Table (Dollars In Thousands)

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Ridge Institute for Science & Education	FY 2017	FY 2018	FY 2019
Electricity Delivery and Energy Reliability	Enacted	Annualized CR	Reques
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$50	\$0	\$0
Resilient Distribution Systems	\$50	\$ 0	\$0
Transformer Resilience and Advanced Components	\$101	\$0	\$0
Program Direction	\$25	\$0	\$0
Total Electricity Delivery and Energy Reliability	\$226	\$0	\$0
Total Electricity Delivery and Energy Reliability	\$226	\$0	\$0
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Geothermal Technologies	\$258	\$258	\$237
Solar Energy	\$3,566	\$0	\$0
Vehicle Technologies	\$142	\$142	\$100
Building Technologies	\$2,048	\$2,034	\$0
Federal Energy Management Program	\$204	\$204	\$0
Advanced Manufacturing	\$4,727	\$4,727	\$0
Bioenergy Technologies	\$236	\$236	\$0
Total Energy Efficiency and Renewable Energy	\$11,181	\$7,601	\$337
Total Energy Efficiency and Renewable Energy	\$11,181	\$7,601	\$337
Science			
Basic Energy Sciences			
Basic Energy Sciences	\$3,176	\$0	\$0
Biological and Environmental Research			
Biological and Environmental Research	\$3,478	\$1,968	\$1,043
Fusion Energy Sciences			
Fusion Energy Sciences	\$574	\$50	\$544
High Energy Physics			
High Energy Physics	\$0	\$1,523	\$0
Nuclear Physics			
Nuclear Physics	\$927	\$467	\$353
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$9,663	\$0	\$0
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$1,000	\$0	\$0
Safeguards and Security			
Safeguards and Security	\$1,925	\$1,885	\$1,892
Total Science	\$20,743	\$5,893	\$3,832
Weapons Activities			
Science			
Science Campaign	\$200	\$199	\$5,100
Inertial Confinement Fusion Ignition High Yield	7-30	+	+ -, - 0 0
Inertial Confinement Fusion Ignition High Yield Campaign	\$210	\$209	\$0
	Ψ210	Ψ200	ΨΟ

Laboratory Table (Dollars In Thousands)

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Ridge Institute for Science & Education	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Total Weapons Activities	\$410	\$408	\$5,100
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$1,305	\$1,305	\$1,305
Total Other Defense Activities	\$1,305	\$1,305	\$1,305
Defense Nuclear Nonproliferation			
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$4,184	\$4,156	\$3,500
Global Material Security			
Global Material Security	\$200	\$200	\$200
Total Defense Nuclear Nonproliferation	\$4,384	\$4,356	\$3,700
al Oak Ridge Institute for Science & Education	\$38,249	\$19,563	\$14,274

Department Of Energy FY 2019 Congressional Budget Laboratory Table

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(Dollars In Thousands)

FY 2017	FY 2018	FY 2019
Enacted	Annualized CR	Reques
\$4,147	\$2,250	\$1,589
\$4,687	\$2,789	\$900
\$7,110	\$1,450	\$0
	\$2,430	\$600
\$3,615	\$0	\$1,500
\$205	\$143	\$150
\$1,200	\$1,200	\$(
\$25,998	\$10,262	\$4,739
\$25,998	\$10,262	\$4,739
\$0	\$0	\$4,000
\$0	\$0	\$3,250
\$0	\$0	\$7,250
\$0	\$0	\$7,250
\$27,265	\$19,203	\$4,593
\$9,969	\$9,796	\$0
\$30,314	\$23,688	\$10,735
\$15,005	\$18,503	\$12,800
	. ,	
\$271	\$250	\$280
	\$4,147 \$4,687 \$7,110 \$5,034 \$3,615 \$205 \$1,200 \$25,998 \$25,998 \$25,998 \$0 \$0 \$0 \$0 \$1 \$27,265 \$9,969 \$30,314 \$15,005	\$4,147 \$2,250 \$4,687 \$2,789 \$7,110 \$1,450 \$5,034 \$2,430 \$3,615 \$0 \$205 \$143 \$1,200 \$1,200 \$25,998 \$10,262 \$25,998 \$25,

Energy Efficiency and Renewable Energy

Laboratory Table (Dollars In Thousands)

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Ridge National Laboratory	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Reques
Energy Efficiency and Renewable Energy	#200	#200	C44
Wind Energy	\$398 \$463	\$398 \$463	\$110
Geothermal Technologies	\$463	\$463	\$407
Hydrogen & Fuel Cell Technologies Water Power	\$4,371	\$1,025	\$1,42
	\$4,465 \$4,464	\$3,638	\$4,65
Solar Energy	\$1,154 \$40,335	\$1,498 \$40,335	\$10.90
Vehicle Technologies	\$40,325	\$40,325	\$10,80
Building Technologies	\$25,734	\$25,559	\$5,97
Federal Energy Management Program Weatherization	\$4,159	\$4,159 \$333	\$1,30
	\$332	\$332 \$470	\$
State Energy Program Grants	\$170	\$170	\$14.00
Advanced Manufacturing	\$29,045	\$29,045	\$11,000
Strategic Programs	\$75	\$75	\$1
Bioenergy Technologies	\$15,177	\$15,177	\$4,36
Total Energy Efficiency and Renewable Energy	\$125,868	\$121,864	\$40,043
Total Energy Efficiency and Renewable Energy	\$125,868	\$121,864	\$40,04
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$1,13
Total Nuclear Waste Disposal	\$0	\$0	\$1,130
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$278,220	\$286,935	\$442,74
Basic Energy Sciences		. ,	
Basic Energy Sciences	\$332,146	\$317,176	\$321,06
Biological and Environmental Research	, , , , , , , , , , , , , , , , , , , 	70,	4 0=1,00
Biological and Environmental Research	\$78,371	\$69,500	\$61,63
Fusion Energy Sciences	Ψ10,511	ψ03,300	Ψ01,00
Fusion Energy Sciences	¢61 045	¢61 562	¢04.70
High Energy Physics	\$61,845	\$61,563	\$94,79
	¢ο	#F00	r.
High Energy Physics	\$0	\$500	\$
Nuclear Physics	044.050	040.754	#40.00
Nuclear Physics	\$14,356	\$16,751	\$19,22
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$26,000	\$25,823	\$10,00
Safeguards and Security			
Safeguards and Security	\$12,374	\$13,064	\$12,86
Total Science	\$803,312	\$791,312	\$962,326
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$40,354	\$40,080	\$17,84
Science	+ -,	,	, ,,,,
Science Campaign	\$163	\$162	\$0

Laboratory Table (Dollars In Thousands)

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Ridge National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Advanced Simulation & Computing		7.1.1.100.1.200 0.11	. 104000
Advanced Simulation & Computing Campaign	\$181	\$180	\$180
Infrastructure and Operations			
Infrastructure and Operations	\$12,402	\$12,318	\$4,310
Total Weapons Activities	\$53,100	\$52,740	\$22,331
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$1,035	\$1,035	\$1,035
Total Other Defense Activities	\$1,035	\$1,035	\$1,035
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$24,908	\$24,739	\$26,579
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$3,569	\$3,545	\$5,000
Global Material Security			
Global Material Security	\$37,381	\$37,127	\$18,553
Material Management and Minimization			
Material Management and Minimization	\$12,186	\$12,103	\$11,664
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$20,672	\$20,532	\$19,393
Total Defense Nuclear Nonproliferation	\$98,716	\$98,046	\$81,189
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Capture	\$500	\$497	\$0
Carbon Storage	\$633	\$629	\$0
Advanced Energy Systems	\$1,300	\$1,291	\$0
Cross Cutting Research	\$4,139	\$4,111	\$0
Total CCS and Power Systems	\$6,572	\$6,528	\$0
Advanced Coal Energy Systems and CCUS			
Advanced Energy Systems	\$0	\$0	\$1,705
Carbon Capture Utilization and Storage	\$0	\$0	\$750
Total Advanced Coal Energy Systems and CCUS	\$0	\$0	\$2,455
Total Fossil Energy Research and Development	\$6,572	\$6,528	\$2,455
Defense Environmental Cleanup			
Oak Ridge Reservation			
Nuclear Facility D & D, ORNL	\$70,100	\$69,624	\$60,007
U233 Disposition Program	\$43,311	\$43,017	\$45,000
Total Oak Ridge Reservation	\$113,411	\$112,641	\$105,007
Total Defense Environmental Cleanup	\$113,411	\$112,641	\$105,007

Strategic Petroleum Reserve

Laboratory Table (Dollars In Thousands)

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Oak Ridge National Laboratory SPR Econometric Modelling Support	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Management	\$489	\$486	\$570
Total Strategic Petroleum Reserve	\$489	\$486	\$570
Total Oak Ridge National Laboratory	\$1,311,325	\$1,266,354	\$1,256,483

Laboratory Table (Dollars In Thousands)

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k Ridge National Laboratory Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$6,186	\$5,766	\$5,465
Total Science	\$6,186	\$5,766	\$5,465
otal Oak Ridge National Laboratory Site Office	\$6,186	\$5,766	\$5,465

Laboratory Table (Dollars In Thousands)

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Nuclear Energy	Ridge Office	FY 2017	FY 2018	FY 2019
Fuel Cycle R & D		Enacted	Annualized CR	Reques
Fuel Cycle R & D \$0 \$272 \$4	•			
Program Direction-NE	-	0.9	¢272	¢4
Program Direction-NE		φυ	Φ 212	Φ 4
Total Nuclear Energy \$645 \$939 \$70 Energy Efficiency and Renewable Energy Energy Efficiency and Renewable Energy Hydrogen & Fuel Cell Technologies \$589 \$130 \$13 Total Energy Efficiency and Renewable Energy Hydrogen & Fuel Cell Technologies \$589 \$130 \$13 Science Basic Energy Sciences Basic Energy Sciences Basic Energy Sciences Nuclear Physics \$85 \$85 \$8 Nuclear Physics Nuclear Physics Science Laboratories Infrastructure Science Laboratories Infrastructure Science Laboratories Infrastructure Safeguards and Security Safeguards Safegua	_	\$645	\$667	\$66
Energy Efficiency and Renewable Energy Energy Efficiency and Renewable Energy Hydrogen & Fuel Cell Technologies S589 \$130 \$131 Total Energy Efficiency and Renewable Energy S589 \$130 \$131 Science Basic Energy Sciences Basic Energy Sciences Basic Energy Sciences Basic Energy Sciences S85 \$85 \$85 \$81 Nuclear Physics Nuclear Physics Science Laboratories Infrastructure Science Laboratories Infrastructure Science Laboratories Infrastructure Safeguards and Security Safeguards and Security Safeguards and Security Frogram Direction Program Direction Program Direction Program Direction Strategic Pathership Projects Strategic Pather		•	•	•
Energy Efficiency and Renewable Energy		ΨΟΙΟ	Ψοσο	Ψίο
Hydrogen & Fuel Cell Technologies \$589				
Total Energy Efficiency and Renewable Energy \$589		¢ E00	#420	640
Science Basic Energy Sciences Basic Energy Sciences Sasic Energy Science Sa				
Basic Energy Sciences \$85 \$85 \$6 Nuclear Physics \$108 \$4 \$6 Nuclear Physics \$108 \$4 \$6 Science Laboratories Infrastructure \$6,182 \$6,140 \$6,434 Safeguards and Security \$21,740 \$19,701 \$22,227 Program Direction \$23,639 \$23,367 \$24,017 Total Science \$51,754 \$49,297 \$52,672 Other Defense Activities \$51,754 \$49,297 \$52,672 Other Defense Activities \$21,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 Departmental Administration \$12,795 \$2,795 \$2,795 Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,505 Defense Environmental Cleanup	Total Energy Efficiency and Renewable Energy	\$589	\$130	\$130
Basic Energy Sciences \$85 \$85 \$85 \$85 \$10 \$100 \$1	Science			
Nuclear Physics Nuclear Physics \$108 \$4 \$6 Science Laboratories Infrastructure Science Laboratories Infrastructure Science Laboratories Infrastructure Safeguards and Security \$6,182 \$6,140 \$6,434 Safeguards and Security Safeguards and Security Program Direction Program Direction \$21,740 \$19,701 \$22,227 Program Direction \$23,639 \$23,367 \$24,017 Total Science \$51,754 \$49,297 \$52,672 Other Defense Activities Environment, Health, Safety and Security Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 Departmental Administration \$1,484 \$1,484 \$1,484 Strategic Partnership Projects Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer Program Direction \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge \$1,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,				
Nuclear Physics \$108	**	\$85	\$85	\$0
Science Laboratories Infrastructure Science Safeguards and Security S21,740 \$19,701 \$22,22 \$19,701 \$22,22 \$11,700 \$19,701 \$22,22 \$11,700 \$19,701 \$22,22 \$11,700 \$19,701 \$22,22 \$11,700 \$19,701 \$22,22 \$11,700 \$19,701 \$22,22 \$11,700 \$19,701 \$22,22 \$11,700 \$11,024 \$16,27 \$10,000 \$10,400 \$10,500 \$11,500 \$				
Science Laboratories Infrastructure \$6,182 \$6,140 \$6,43 Safeguards and Security \$21,740 \$19,701 \$22,22 Program Direction \$23,639 \$23,367 \$24,01 Total Science \$51,754 \$49,297 \$52,673 Other Defense Activities Science \$51,754 \$49,297 \$52,673 Other Defense Activities Science \$2,795	•	\$108	\$4	\$(
Safeguards and Security \$21,740 \$19,701 \$22,22 Program Direction \$23,639 \$23,367 \$24,01 Total Science \$51,754 \$49,297 \$52,67 Other Defense Activities Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 \$2,795 Departmental Administration Strategic Partnership Projects \$9,025 \$8,964 \$9,02 Strategic Partnership Projects \$9,025 \$8,964 \$9,02 Chief Financial Officer \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,50 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,27 Program Direction Qak Ridge \$14,554 \$14,576 \$15,31 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,58				
Safeguards and Security \$21,740 \$19,701 \$22,22 Program Direction \$23,639 \$23,367 \$24,01 Total Science \$51,754 \$49,297 \$52,67 Other Defense Activities Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 \$2,795 Departmental Administration Strategic Partnership Projects \$9,025 \$8,964 \$9,02 Chief Financial Officer \$9,025 \$8,964 \$9,02 Chief Financial Officer \$1,484 \$1,484 \$1,48 Total Departmental Administration \$10,509 \$10,448 \$10,50 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,27 Program Direction Oak Ridge \$14,554 \$14,576 \$15,31 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,58		\$6,182	\$6,140	\$6,43
Program Direction \$23,639 \$23,367 \$24,01 Total Science \$51,754 \$49,297 \$52,67 Other Defense Activities Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 \$2,795 Departmental Administration \$1,484 \$1,484 \$1,484 Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,500 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,276 Program Direction Oak Ridge \$14,554 \$14,576 \$15,31 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,58	-			
Program Direction \$23,639 \$23,367 \$24,01 Total Science \$51,754 \$49,297 \$52,675 Other Defense Activities Servironment, Health, Safety and Security Servironment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 \$2,795 Departmental Administration Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,31 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	·	\$21,740	\$19,701	\$22,22
Total Science \$51,754 \$49,297 \$52,675 Other Defense Activities Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 \$2,795 Departmental Administration Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer Program Direction \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	_	***		****
Other Defense Activities Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 Departmental Administration Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer Program Direction \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	Program Direction	\$23,639	\$23,367	\$24,01
Environment, Health, Safety and Security	Total Science	\$51,754	\$49,297	\$52,672
Environment, Health, Safety and Security \$2,795 \$2,795 \$2,795 Total Other Defense Activities \$2,795 \$2,795 \$2,795 Departmental Administration Strategic Partnership Projects Strategic Partnership Projects Chief Financial Officer Program Direction \$1,484 \$1,484 \$1,484 Total Departmental Administration Defense Environmental Cleanup Oak Ridge Reservation Nuclear Facility D & D, Y-12 Program Direction Oak Ridge \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	Other Defense Activities			
Total Other Defense Activities \$2,795 \$2,795 \$2,795	Environment, Health, Safety and Security			
Departmental Administration Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer Program Direction \$1,484 \$1,484 \$1,484 Program Direction \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	Environment, Health, Safety and Security	\$2,795	\$2,795	\$2,79
Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer \$1,484 \$1,484 \$1,484 Program Direction \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,588	Total Other Defense Activities	\$2,795	\$2,795	\$2,79
Strategic Partnership Projects \$9,025 \$8,964 \$9,025 Chief Financial Officer \$1,484 \$1,484 \$1,484 Program Direction \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,588	Departmental Administration			
Chief Financial Officer Program Direction \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	Strategic Partnership Projects			
Program Direction \$1,484 \$1,484 \$1,484 Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,588	Strategic Partnership Projects	\$9,025	\$8,964	\$9,02
Total Departmental Administration \$10,509 \$10,448 \$10,509 Defense Environmental Cleanup Oak Ridge Reservation \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,588	Chief Financial Officer			
Defense Environmental Cleanup Oak Ridge Reservation Nuclear Facility D & D, Y-12 Program Direction Oak Ridge \$11,100 \$11,024 \$16,274 \$16,274 \$14,554 \$14,576 \$15,314 \$70tal Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	Program Direction	\$1,484	\$1,484	\$1,484
Oak Ridge Reservation Nuclear Facility D & D, Y-12 \$11,100 \$11,024 \$16,274 Program Direction Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,588	Total Departmental Administration	\$10,509	\$10,448	\$10,509
Nuclear Facility D & D, Y-12 \$11,100 \$11,024 \$16,274 Program Direction \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,588	Defense Environmental Cleanup			
Program Direction \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	•			
Oak Ridge \$14,554 \$14,576 \$15,314 Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,586	Nuclear Facility D & D, Y-12	\$11,100	\$11,024	\$16,27
Total Defense Environmental Cleanup \$25,654 \$25,600 \$31,58	Program Direction			
	Oak Ridge	\$14,554	\$14,576	\$15,31
I Oak Ridge Office \$91.946 \$89.209 \$98.40	Total Defense Environmental Cleanup	\$25,654	\$25,600	\$31,58
	I Oak Ridge Office	\$91,946	\$89,209	\$98,401

Laboratory Table (Dollars In Thousands)

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Oak Ridge Reservation	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Defense Environmental Cleanup			
Oak Ridge Reservation			
Clean-up and Disposition	\$68,457	\$67,992	\$67,000
Total Defense Environmental Cleanup	\$68,457	\$67,992	\$67,000
Total Oak Ridge Reservation	\$68,457	\$67,992	\$67,000

Laboratory Table (Dollars In Thousands)

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Oak Ridge Reservation (Off-Site)	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Defense Environmental Cleanup			
Oak Ridge Reservation			
ORR Community and Regulatory Support	\$5,500	\$5,462	\$4,711
Total Defense Environmental Cleanup	\$5,500	\$5,462	\$4,711
Total Oak Ridge Reservation (Off-Site)	\$5,500	\$5,462	\$4,711

Laboratory Table (Dollars In Thousands)

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Office of River Protection	FY 2017	FY 2018	FY 2019
THE OF TAVEL F TOLECTION	Enacted	Annualized CR	Request
Defense Environmental Cleanup			_
Office of River Protection			
Tank Farm Activities	\$733,965	\$728,981	\$677,460
Waste Treatment Plant	\$693,000	\$688,294	\$705,000
Total Office of River Protection	\$1,426,965	\$1,417,275	\$1,382,460
Program Direction			
Office of River Protection	\$31,395	\$31,320	\$32,481
Total Defense Environmental Cleanup	\$1,458,360	\$1,448,595	\$1,414,941
otal Office of River Protection	\$1,458,360	\$1,448,595	\$1,414,941

Laboratory Table (Dollars In Thousands)

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e of Scientific & Technical Information	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019
Energy Efficiency and Renewable Energy	Enacted	Alliualized CR	Reques
Energy Efficiency and Renewable Energy			
Solar Energy	\$24	\$0	\$(
Total Energy Efficiency and Renewable Energy	\$24	\$0	\$(
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$214	\$148	\$(
Basic Energy Sciences	ΨΖΙΙ	ΨΠΟ	Ψ
Basic Energy Sciences	\$569	\$148	\$(
Biological and Environmental Research	Ψ303	Ψ1+Ο	Ψ
Biological and Environmental Research	\$190	\$0	\$14
Fusion Energy Sciences	φ190	φυ	φ140
Fusion Energy Sciences	\$145	\$0	\$14
Nuclear Physics	φ140	φυ	Φ143
•	#224	¢044	¢10
Nuclear Physics	\$334	\$211	\$10
Workforce Development for Teachers and Scientists	#00	Φ0	Φ.
Workforce Development for Teachers and Scientists	\$80	\$0	\$
Science Laboratories Infrastructure	***	•	•
Science Laboratories Infrastructure	\$200	\$0	\$(
Safeguards and Security			
Safeguards and Security	\$784	\$759	\$759
Program Direction			
Program Direction	\$8,557	\$8,850	\$8,647
Total Science	\$11,073	\$10,116	\$9,807
Weapons Activities			
Science			
Science Campaign	\$220	\$219	\$220
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$213	\$212	\$213
Total Weapons Activities	\$433	\$431	\$433
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$300	\$300	\$30
Total Other Defense Activities	\$300	\$300	\$300
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$28	\$28	\$3:
Total Defense Nuclear Nonproliferation	\$28	\$28	\$32

Laboratory Table (Dollars In Thousands)

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io Field Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$5	\$5	\$5
Total Other Defense Activities	\$5	\$5	\$5
iotal Ohio Field Office	\$5	\$5	\$5

Laboratory Table (Dollars In Thousands)

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fic Northwest National Laboratory	FY 2017	FY 2018	FY 2019
Electricity Delivery and Energy Reliability	Enacted	Annualized CR	Request
Electricity Delivery and Energy Reliability Electricity Delivery and Energy Reliability			
Transmission Reliability	\$8,419	\$5,314	\$4,716
Resilient Distribution Systems	\$14,992	\$5,514 \$13,571	\$4,716 \$5,160
Cybersecurity for Energy Delivery Systems	\$13,071	\$4,900	\$5,100
Energy Storage	\$7,462	\$11,032	\$3,400
Transformer Resilience and Advanced Components	\$570	\$0	ψο, - 00 \$0
Transmission Permitting and Technical Assistance	\$472	\$323	\$250
Infrastructure Security & Energy Restoration	\$703	\$703	\$0
Total Electricity Delivery and Energy Reliability	\$45,689	\$35,843	\$13,526
Total Electricity Delivery and Energy Reliability	\$45,689	\$35,843	\$13,526
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$2,000
CEDS	\$0	\$0	\$6,687
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$8,687
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$8,687
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$12,178	\$12,902	\$1,652
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$1,586	\$575	\$605
Reactors Concepts RD&D			
Reactors Concepts RD&D	\$1,370	\$1,040	\$900
International Nuclear Energy Cooperation			
International Nuclear Energy Cooperation	\$0	\$20	\$0
Total Nuclear Energy	\$15,134	\$14,537	\$3,157
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$2,928	\$2,928	\$1,422
Geothermal Technologies	\$2,964	\$2,964	\$1,062
Hydrogen & Fuel Cell Technologies	\$6,938	\$1,740	\$2,440
Water Power	\$8,114	\$7,086	\$3,772
Solar Energy	\$3,863	\$900	\$0
Vehicle Technologies	\$15,779	\$15,779	\$5,925
Building Technologies	\$34,179	\$33,947	\$4,653
Federal Energy Management Program	\$2,797	\$2,797	\$1,445
Strategic Programs	\$265	\$450	\$0 \$2.003
Bioenergy Technologies	\$24,044	\$24,044	\$3,803
Total Energy Efficiency and Renewable Energy	\$101,871	\$92,635	\$24,522
Total Energy Efficiency and Renewable Energy	\$101,871	\$92,635	\$24,522

Nuclear Waste Disposal

Laboratory Table (Dollars In Thousands)

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fic Northwest National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Yucca Mountain and Interim Storage		7	
Yucca Mountain and Interim Storage	\$0	\$0	\$910
Total Nuclear Waste Disposal	\$0	\$0	\$910
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$1,483	\$2,981	\$1,162
Basic Energy Sciences			
Basic Energy Sciences	\$31,527	\$20,926	\$27,137
Biological and Environmental Research			
Biological and Environmental Research	\$110,179	\$95,028	\$90,987
Fusion Energy Sciences			
Fusion Energy Sciences	\$663	\$863	\$1,400
High Energy Physics			
High Energy Physics	\$3,375	\$2,725	\$1,465
Nuclear Physics			
Nuclear Physics	\$520	\$500	\$500
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$1,076	\$0	\$0
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$0	\$0	\$4,000
Safeguards and Security			
Safeguards and Security	\$12,839	\$12,392	\$12,349
Total Science	\$161,662	\$135,415	\$139,000
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$32,836	\$32,613	\$34,970
Science			
Science Campaign	\$650	\$646	\$0
Infrastructure and Operations			
Infrastructure and Operations	\$6,757	\$6,711	\$6,275
Total Weapons Activities	\$40,243	\$39,970	\$41,245
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$1,905	\$1,905	\$1,90
Enterprise Assessments			
Enterprise Assessments	\$160	\$0	\$0
Total Enterprise Assessments	\$160	\$0	\$(
Total Other Defense Activities	\$2,065	\$1,905	\$1,905
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
- · · · · · · · · · · · · · · · · · · ·			

Laboratory Table (Dollars In Thousands)

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ifia Northwest National Laboratory	FY 2017	FY 2018	FY 2019
fic Northwest National Laboratory	Enacted	Annualized CR	Request
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$3,972	\$3,945	\$5,326
Global Material Security			
Global Material Security	\$127,373	\$126,508	\$112,002
Material Management and Minimization			
Material Management and Minimization	\$7,609	\$7,557	\$41,347
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$21,823	\$21,675	\$21,000
Total Defense Nuclear Nonproliferation	\$211,351	\$209,916	\$210,393
Departmental Administration			
Strategic Partnership Projects			
Strategic Partnership Projects	\$10,325	\$10,255	\$10,325
Total Departmental Administration	\$10,325	\$10,255	\$10,325
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Capture	\$3,319	\$3,296	\$0
Cross Cutting Research	\$400	\$397	\$0
Total CCS and Power Systems	\$3,719	\$3,693	\$0
Advanced Coal Energy Systems and CCUS			
Advanced Energy Systems	\$0	\$0	\$175
Carbon Capture Utilization and Storage	\$0	\$0	\$1,900
Total Advanced Coal Energy Systems and CCUS	\$0	\$0	\$2,075
Natural Gas Technologies			
Natural Gas Technologies	\$100	\$99	\$0
Total Fossil Energy Research and Development	\$3,819	\$3,792	\$2,075
I Pacific Northwest National Laboratory	\$592,159	\$544,268	\$455,745

Laboratory Table (Dollars In Thousands)

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Pacific Northwest Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$5,105	\$4,894	\$5,170
Total Science	\$5,105	\$4,894	\$5,170
Total Pacific Northwest Site Office	\$5,105	\$4,894	\$5,170

Laboratory Table (Dollars In Thousands)

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ucah Gaseous Diffusion Plant	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Reques
Non-Defense Environmental Cleanup			
Gaseous Diffusion Plants			
Gaseous Diffusion Plants	\$50,345	\$50,003	\$49,964
Total Non-Defense Environmental Cleanup	\$50,345	\$50,003	\$49,964
Uranium Enrichment Decon. & Decom. Fund			
Uranium Enrichment D&D Fund			
Pens & Comm & Reg Support Paducah	\$2,386	\$2,370	\$2,102
Paducah Gaseous Diffusion Plant	\$205,530	\$204,135	\$202,581
Total Uranium Enrichment D&D Fund	\$207,916	\$206,505	\$204,683
Total Uranium Enrichment Decon. & Decom. Fund	\$207,916	\$206,505	\$204,683
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$3,000	\$3,000	\$3,000
Total Other Defense Activities	\$3,000	\$3,000	\$3,000
Defense Environmental Cleanup			
Program Direction			
Paducah/Portsmouth	\$13,039	\$13,136	\$13,750
Safeguards and Security			
Paducah	\$14,049	\$13,954	\$15,577
Total Defense Environmental Cleanup	\$27,088	\$27,090	\$29,327
l Paducah Gaseous Diffusion Plant	\$288,349	\$286,598	\$286,974

Laboratory Table (Dollars In Thousands)

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tex Plant	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Regues
Weapons Activities	Lilacica	Annualized Oil	reques
Directed Stockpile Work			
Directed Stockpile Work	\$389,675	\$387,029	\$435,558
Science	,	, , , , , , , , , , , , , , , , , , ,	, 100,00
Science Campaign	\$320	\$318	\$(
Engineering	•	• • •	•
Engineering Campaign	\$2,068	\$2,054	\$2,420
Defense Nuclear Security	, ,	, ,	, ,
Defense Nuclear Security	\$136,750	\$135,821	\$140,638
Information technology and Cybersecurity	¥ ,	¥ · · · · · · ·	+ 1 10,000
Information technology and Cybersecurity	\$7,163	\$7,114	\$6,765
Infrastructure and Operations	,	,	, ,
Infrastructure and Operations	\$199,087	\$197,735	\$217,38
Secure Transportation Asset	. ,	,	
Secure Transportation Asset	\$7,091	\$7,043	\$8,112
Advanced Manufacturing Development			
Advanced Manufacturing Development	\$4,069	\$4,041	\$3,500
Total Weapons Activities	\$746,223	\$741,155	\$814,378
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$10	\$10	\$10
Total Other Defense Activities	\$10	\$10	\$10
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$2,000	\$1,986	\$2,000
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$1,441	\$1,431	\$1,529
Material Management and Minimization			
Material Management and Minimization	\$4,033	\$4,006	\$7,000
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$630	\$626	\$135
		**	#10 66 <i>i</i>
Total Defense Nuclear Nonproliferation	\$8,104	\$8,049	\$10,664

Laboratory Table (Dollars In Thousands)

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Pinellas Site	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$7,310	\$5,700	\$5,545
Total Other Defense Activities	\$7,310	\$5,700	\$5,545
Total Pinellas Site	\$7,310	\$5,700	\$5,545

Laboratory Table (Dollars In Thousands)

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tsmouth Gaseous Diffusion Plant	FY 2017	FY 2018	FY 2019
Smouth Gaseous Dinusion Flant	Enacted	Annualized CR	Reques
Non-Defense Environmental Cleanup			
Gaseous Diffusion Plants			
Gaseous Diffusion Plants	\$50,959	\$50,613	\$50,611
Total Non-Defense Environmental Cleanup	\$50,959	\$50,613	\$50,611
Uranium Enrichment Decon. & Decom. Fund			
Uranium Enrichment D&D Fund			
Pens & Comm & Reg Support Portsmouth	\$1,795	\$1,783	\$1,670
Portsmouth Gaseous Diffusion Plant	\$315,168	\$313,028	\$348,099
Total Uranium Enrichment D&D Fund	\$316,963	\$314,811	\$349,769
Total Uranium Enrichment Decon. & Decom. Fund	\$316,963	\$314,811	\$349,769
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$4,200	\$3,000	\$3,000
Total Other Defense Activities	\$4,200	\$3,000	\$3,000
Defense Environmental Cleanup			
Safeguards and Security			
Portsmouth	\$14,049	\$13,954	\$15,078
Total Defense Environmental Cleanup	\$14,049	\$13,954	\$15,078
l Portsmouth Gaseous Diffusion Plant	\$386,171	\$382,378	\$418,458

Laboratory Table (Dollars In Thousands)

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nceton Plasma Physics Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$0	\$385	\$385
Basic Energy Sciences			
Basic Energy Sciences	\$1,300	\$0	\$0
Fusion Energy Sciences			
Fusion Energy Sciences	\$76,000	\$57,151	\$73,591
High Energy Physics			
High Energy Physics	\$200	\$0	\$0
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$360	\$0	\$0
Safeguards and Security			
Safeguards and Security	\$2,535	\$2,691	\$2,732
Total Science	\$80,395	\$60,227	\$76,708
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$100	\$99	\$113
Total Defense Nuclear Nonproliferation	\$100	\$99	\$113
tal Princeton Plasma Physics Laboratory	\$80,495	\$60,326	\$76,821

Laboratory Table (Dollars In Thousands)

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rinceton Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			
Program Direction			
Program Direction	\$1,647	\$1,794	\$1,978
Total Science	\$1,647	\$1,794	\$1,978
Total Princeton Site Office	\$1,647	\$1,794	\$1,978

Laboratory Table (Dollars In Thousands)

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land Operations Office	FY 2017	FY 2018	FY 201
•	Enacted	Annualized CR	Reques
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Infrastructure Security & Energy Restoration	\$856	\$856	\$
Total Electricity Delivery and Energy Reliability	\$856	\$856	\$
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$85
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$85
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$1,000	\$1,000	\$1,000
Total Other Defense Activities	\$1,000	\$1,000	\$1,000
Defense Nuclear Nonproliferation			
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$6,984	\$6,937	\$1,800
Total Defense Nuclear Nonproliferation	\$6,984	\$6,937	\$1,800
Departmental Administration			
Strategic Partnership Projects			
Strategic Partnership Projects	\$100	\$99	\$100
Total Departmental Administration	\$100	\$99	\$100
Defense Environmental Cleanup			
Hanford Site			
Community and Regulatory Support	\$24,701	\$24,533	\$5,12°
Office of River Protection			
Tank Farm Activities	\$73,000	\$72,504	\$56,053
Program Direction			
Richland	\$40,664	\$39,816	\$41,20
Total Defense Environmental Cleanup	\$138,365	\$136,853	\$102,38
			\$106,13°

Laboratory Table (Dollars In Thousands)

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locky Flats Site	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Other Defense Activities	Enacieu	Allilualized CK	Request
Office of Legacy Management			
Legacy Management	\$38,029	\$37,137	\$34,346
Total Other Defense Activities	\$38,029	\$37,137	\$34,346
Defense Environmental Cleanup			
Closure Sites			
Rocky Flats	\$8,389	\$8,332	\$2,000
Total Defense Environmental Cleanup	\$8,389	\$8,332	\$2,000
otal Rocky Flats Site	\$46,418	\$45,469	\$36,346

Laboratory Table (Dollars In Thousands)

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dia National Laboratories	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$1,574	\$2,400	\$1,469
Resilient Distribution Systems	\$2,073	\$2,288	\$500
Cybersecurity for Energy Delivery Systems	\$2,148	\$1,900	\$0
Energy Storage	\$9,486	\$13,770	\$4,000
Transformer Resilience and Advanced Components	\$90	\$0	\$500
Transmission Permitting and Technical Assistance	\$231	\$185	\$150
Infrastructure Security & Energy Restoration	\$349	\$349	\$0
Total Electricity Delivery and Energy Reliability	\$15,951	\$20,892	\$6,619
Total Electricity Delivery and Energy Reliability	\$15,951	\$20,892	\$6,619
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$1,000
CEDS	\$0	\$0	\$3,900
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$4,900
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$4,900
Nuclear Energy			
Fuel Cycle R & D			
Fuel Cycle R & D	\$19,100	\$23,360	\$2,790
Nuclear Energy Enabling Technologies			
Nuclear Energy Enabling Technologies	\$988	\$2,100	\$150
Reactors Concepts RD&D		. ,	
Reactors Concepts RD&D	\$2,171	\$3,894	\$3,000
International Nuclear Energy Cooperation	. ,	. ,	. ,
International Nuclear Energy Cooperation	\$0	\$45	\$0
Supercritical Transformational Electric Power Generation	, -	, -	•
Supercritical Transformational Electric Power Generation	\$4,721	\$4,750	\$0
Total Nuclear Energy	\$26,980	\$34,149	\$5,940
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$4,825	\$4,825	\$3,547
Geothermal Technologies	\$5,873	\$5,873	\$1,318
Hydrogen & Fuel Cell Technologies	\$8,637	\$2,790	\$4,140
Water Power	\$6,947	\$6,947	\$2,497
Solar Energy	\$11,689	\$4,000	\$0
Vehicle Technologies	\$12,004	\$12,004	\$4,912
Building Technologies	\$274	\$272	\$82
Strategic Programs	\$0	\$500	\$0
Bioenergy Technologies	\$7,592	\$7,592	\$2,984
Total Energy Efficiency and Renewable Energy	\$57,841	\$44,803	\$19,480
Total Energy Efficiency and Renewable Energy	\$57,841	\$44,803	\$19,480

Laboratory Table (Dollars In Thousands)

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dia National Laboratories	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$35,480
Total Nuclear Waste Disposal	\$0	\$0	\$35,480
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$2,829	\$9,579	\$7,604
Basic Energy Sciences			
Basic Energy Sciences	\$33,577	\$24,038	\$26,532
Biological and Environmental Research			
Biological and Environmental Research	\$13,522	\$9,306	\$10,100
Fusion Energy Sciences			
Fusion Energy Sciences	\$2,952	\$2,741	\$2,238
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$100	\$0	\$0
Total Science	\$52,980	\$45,664	\$46,474
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$899,151	\$893,045	\$1,189,758
Science			
Science Campaign	\$43,697	\$43,400	\$55,032
Engineering			
Engineering Campaign	\$67,036	\$66,581	\$82,728
Inertial Confinement Fusion Ignition High Yield	, ,	, ,	,
Inertial Confinement Fusion Ignition High Yield Campaign	\$47,378	\$47,056	\$63,089
Advanced Simulation & Computing	, ,-	, , , , , , , , , , , , , , , , , , , ,	, ,
Advanced Simulation & Computing Campaign	\$151,857	\$150,826	\$172,007
Defense Nuclear Security	, , , , , ,	,,.	, , , , , , , , , ,
Defense Nuclear Security	\$78,586	\$78,052	\$66,721
Information technology and Cybersecurity	, ,,,,,,,,	, ,,,,	, ,
Information technology and Cybersecurity	\$19,720	\$19,586	\$16,707
Infrastructure and Operations	¥ 12,1 = 2	+ ,	4 12,1 21
Infrastructure and Operations	\$201,773	\$200,403	\$207,448
Secure Transportation Asset	+ ,	, ,,	,
Secure Transportation Asset	\$41,457	\$41,175	\$61,928
Advanced Manufacturing Development	4 · · · , · · · ·	4 , 3	40.,020
Advanced Manufacturing Development	\$8,326	\$8,269	\$8,112
Total Weapons Activities	\$1,558,981	\$1,548,393	\$1,923,530
		•	
Other Defense Activities			
Environment, Health, Safety and Security	* 4.0.5	* 4.046	***
Environment, Health, Safety and Security	\$1,210	\$1,210	\$1,210
Total Other Defense Activities	\$1,210	\$1,210	\$1,210

Defense Nuclear Nonproliferation

Laboratory Table (Dollars In Thousands)

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dia National Laboratories	FY 2017 Enacted	FY 2018 Annualized CR	FY 201 Reques
Defense Nuclear Nonproliferation R&D	Lilacica	7 (III dail 20d OT	rteque
Defense Nuclear Nonproliferation R&D	\$103,168	\$102,467	\$107,37
Nuclear Counterterrorism and Incident Response	ψ100,100	Ψ102,101	Ψ.σ.,σ.
Nuclear Counterterrorism Incident Response	\$35,853	\$35,610	\$46,20
Global Material Security	400,000	400,0 10	4 10,20
Global Material Security	\$47,284	\$46,963	\$45,17
Material Management and Minimization	, , -	, -,	,
Material Management and Minimization	\$2,010	\$1,996	\$1,98
Nonproliferation and Arms Control		. ,	
Nonproliferation and Arms Control	\$7,375	\$7,325	\$7,0
Total Defense Nuclear Nonproliferation	\$195,690	\$194,361	\$207,78
Departmental Administration			
Office of Indian Energy			
Office of Indian Energy	\$750	\$700	\$80
Total Departmental Administration	\$750	\$700	\$80
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Storage	\$622	\$618	;
Cross Cutting Research	\$285	\$283	
Total CCS and Power Systems	\$907	\$901	
Natural Gas Technologies			
Natural Gas Technologies	\$1,210	\$1,202	
Total Fossil Energy Research and Development	\$2,117	\$2,103	
Defense Environmental Cleanup			
NNSA Sites			
NNSA Sites	\$4,130	\$4,102	\$2,6
Total Defense Environmental Cleanup	\$4,130	\$4,102	\$2,6
Strategic Petroleum Reserve			
SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$3,490	\$3,466	\$3,2
Total Strategic Petroleum Reserve	\$3,490	\$3,466	\$3,2

Laboratory Table (Dollars In Thousands)

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andia Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$20,353	\$20,215	\$22,992
Total Federal Salaries and Expenses	\$20,353	\$20,215	\$22,992
Total Sandia Site Office	\$20,353	\$20,215	\$22,992

Laboratory Table (Dollars In Thousands)

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rannah River National Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Nuclear Energy			7.10 44.000
Fuel Cycle R & D			
Fuel Cycle R & D	\$4,346	\$4,554	\$261
Total Nuclear Energy	\$4,346	\$4,554	\$261
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Hydrogen & Fuel Cell Technologies	\$2,615	\$330	\$580
Solar Energy	\$287	\$0	\$0
Vehicle Technologies	\$53	\$53	\$0
Bioenergy Technologies	\$444	\$444	\$0
Total Energy Efficiency and Renewable Energy	\$3,399	\$827	\$580
Total Energy Efficiency and Renewable Energy	\$3,399	\$827	\$580
Science			
Basic Energy Sciences			
Basic Energy Sciences	\$827	\$0	\$0
Biological and Environmental Research			
Biological and Environmental Research	\$50	\$50	\$0
Fusion Energy Sciences			
Fusion Energy Sciences	\$0	\$50	\$0
Total Science	\$877	\$100	\$0
al Savannah River National Laboratory	\$8,622	\$5,481	\$841

Laboratory Table (Dollars In Thousands)

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annah River Operations Office	FY 2017	FY 2018	FY 201
·	Enacted	Annualized CR	Reques
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Resilient Distribution Systems	\$24	\$0	\$0
Transformer Resilience and Advanced Components	\$50	\$0	\$250
Infrastructure Security & Energy Restoration	\$300	\$300	\$C
Total Electricity Delivery and Energy Reliability	\$374	\$300	\$250
Total Electricity Delivery and Energy Reliability	\$374	\$300	\$250
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$500
	· · ·		
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$500
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$1,050
Total Nuclear Waste Disposal	\$0	\$0	\$1,050
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$500	\$500	\$500
Total Other Defense Activities	\$500	\$500	\$500
Departmental Administration			
Strategic Partnership Projects			
Strategic Partnership Projects	\$6,700	\$6,654	\$6,700
Total Departmental Administration	\$6,700	\$6,654	\$6,700
Defense Environmental Cleanup			
Savannah River Sites			
Community and Regulatory Support	\$11,249	\$11,172	\$4,749
Program Direction	Ψ11,210	Ψ,	Ψ 1,7 10
Savannah River	\$43,137	\$45,477	\$47,001
Safeguards and Security	ψ10,107	Ψ10,177	ψ11,001
Savannah River Site	\$136,000	\$135,076	\$183,357
Total Defense Environmental Cleanup	\$190,386	\$191,725	\$235,107
I Savannah River Operations Office	\$197,960	\$199,179	\$244,107
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Laboratory Table (Dollars In Thousands)

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annah River Site	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Weapons Activities	Liladida	7 IIII dailead oi t	rioquot
Directed Stockpile Work			
Directed Stockpile Work	\$99,691	\$99,014	\$132,49
Science			
Science Campaign	\$300	\$298	\$
Engineering			
Engineering Campaign	\$1,618	\$1,607	\$1,83
Defense Nuclear Security			
Defense Nuclear Security	\$6,967	\$6,920	\$7,18
Information technology and Cybersecurity			
Information technology and Cybersecurity	\$5,578	\$5,540	\$5,55
Infrastructure and Operations			
Infrastructure and Operations	\$135,453	\$134,533	\$174,94
Advanced Manufacturing Development			
Advanced Manufacturing Development	\$8,042	\$7,987	\$6,51
Total Weapons Activities	\$257,649	\$255,899	\$328,52
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$6,120	\$6,078	\$7,00
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$2,304	\$2,288	\$2,80
Global Material Security			
Global Material Security	\$168	\$167	\$16
Material Management and Minimization			
Material Management and Minimization	\$62,894	\$62,467	\$84,14
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$3,550	\$3,526	\$3,99
Nonproliferation Construction			
Nonproliferation Construction	\$328,939	\$326,705	\$228,00
Total Defense Nuclear Nonproliferation	\$403,975	\$401,231	\$326,10
Defense Environmental Cleanup			
Savannah River Sites			
Site Risk Management Operations	\$448,980	\$445,931	\$
Radioactive Liquid Tank Waste Stabilization and Disposition	\$773,200	\$767,950	\$949,37
Nuclear Material Management	\$0	\$0	\$351,33
Environmental Cleanup	\$0	\$0	\$167,36
Total Savannah River Sites	\$1,222,180	\$1,213,881	\$1,468,07
Total Defense Environmental Cleanup	\$1,222,180	\$1,213,881	\$1,468,07

Laboratory Table (Dollars In Thousands)

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vannah River Site Office	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$10	\$10	\$10
Total Other Defense Activities	\$10	\$10	\$10
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$5,268	\$5,232	\$5,767
Total Federal Salaries and Expenses	\$5,268	\$5,232	\$5,767
tal Savannah River Site Office	\$5,278	\$5,242	\$5,777

Laboratory Table (Dollars In Thousands)

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Separations Process Research Unit	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Defense Environmental Cleanup			
NNSA Sites			
NNSA Sites	\$3,685	\$3,660	\$15,000
Total Defense Environmental Cleanup	\$3,685	\$3,660	\$15,000
Total Separations Process Research Unit	\$3,685	\$3,660	\$15,000

Laboratory Table (Dollars In Thousands)

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C National Accelerator Laboratory	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Nuclear Energy	Litacica	7 IIII dall 200 OTC	requee
Fuel Cycle R & D			
Fuel Cycle R & D	\$50	\$0	\$
Total Nuclear Energy	\$50	\$0	\$(
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Hydrogen & Fuel Cell Technologies	\$95	\$50	\$5
Solar Energy	\$3,830	\$333	\$
Vehicle Technologies	\$1,700	\$1,700	\$90
Building Technologies	\$400	\$397	\$12
Total Energy Efficiency and Renewable Energy	\$6,025	\$2,480	\$1,073
Total Energy Efficiency and Renewable Energy	\$6,025	\$2,480	\$1,07
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$125	\$428	\$42
Basic Energy Sciences			
Basic Energy Sciences	\$401,195	\$401,111	\$361,60
Biological and Environmental Research			
Biological and Environmental Research	\$4,211	\$4,100	\$3,10
Fusion Energy Sciences			
Fusion Energy Sciences	\$4,450	\$5,550	\$4,54
High Energy Physics			
High Energy Physics	\$100,733	\$61,190	\$44,78
Nuclear Physics			
Nuclear Physics	\$1,089	\$1,009	\$810
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$429	\$0	\$(
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$30,000	\$0	\$
Safeguards and Security			
Safeguards and Security	\$4,255	\$4,269	\$4,30
Total Science	\$546,487	\$477,657	\$419,56
Weapons Activities			
Science			
Science Campaign	\$90	\$89	\$9
Total Weapons Activities	\$90	\$89	\$90
I SLAC National Accelerator Laboratory	\$552,652	\$480,226	\$420,727
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Laboratory Table (Dollars In Thousands)

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utheastern Power Administration	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Southeastern Power Admin Operation & Maint.			_
Purchase Power and Wheeling			
Purchase Power and Wheeling	\$78,929	\$78,393	\$73,184
Program Direction			
Program Direction	\$6,000	\$5,959	\$6,500
Total Southeastern Power Admin Operation & Maint.	\$84,929	\$84,352	\$79,684
ntal Southeastern Power Administration	\$84,929	\$84,352	\$79,684

Laboratory Table (Dollars In Thousands)

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other actions Devices Administration	FY 2017	FY 2018	FY 2019
uthwestern Power Administration	Enacted	Annualized CR	Request
Southwestern Power Admin Operation & Maint.			
Systems Operation and Maintenance			
Systems Operation and Maintenance	\$13,896	\$16,680	\$17,006
Purchase Power and Wheeling			
Purchase Power and Wheeling	\$83,000	\$20,000	\$93,000
SWPA Construction			
Construction	\$12,486	\$14,932	\$16,875
Program Direction			
Program Direction	\$31,516	\$32,372	\$32,995
Total Southwestern Power Admin Operation & Maint.	\$140,898	\$83,984	\$159,876
al Southwestern Power Administration	\$140,898	\$83,984	\$159,876

Laboratory Table (Dollars In Thousands)

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nford Site Office	FY 2017	FY 2018	FY 2019
Electricity Delivery and Energy Reliability	Enacted	Annualized CR	Request
Electricity Delivery and Energy Reliability			
Resilient Distribution Systems	\$3,015	\$0	\$0
Total Electricity Delivery and Energy Reliability	\$3,015	\$0	\$0
Science			
Program Direction			
Program Direction	\$2,442	\$2,638	\$2,623
Total Science	\$2,442	\$2,638	\$2,623
al Stanford Site Office	\$5,457	\$2,638	\$2,623

Laboratory Table (Dollars In Thousands)

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trategic Petroleum Reserve - Bayou Choctaw	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Strategic Petroleum Reserve			
SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$14,339	\$14,241	\$11,419
Total Strategic Petroleum Reserve	\$14,339	\$14,241	\$11,419
otal Strategic Petroleum Reserve - Bayou Choctaw	\$14,339	\$14,241	\$11,419

Laboratory Table (Dollars In Thousands)

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trategic Petroleum Reserve - Big Hill	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Strategic Petroleum Reserve			
SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$25,538	\$25,365	\$23,601
Total Strategic Petroleum Reserve	\$25,538	\$25,365	\$23,601
Total Strategic Petroleum Reserve - Big Hill	\$25,538	\$25,365	\$23,601

Laboratory Table (Dollars In Thousands)

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trategic Petroleum Reserve - Bryan Mound	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Strategic Petroleum Reserve			
SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$19,057	\$18,928	\$19,298
Total Strategic Petroleum Reserve	\$19,057	\$18,928	\$19,298
Total Strategic Petroleum Reserve - Bryan Mound	\$19,057	\$18,928	\$19,298

Laboratory Table (Dollars In Thousands)

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trategic Petroleum Reserve - West Hackberry	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Strategic Petroleum Reserve			
SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$32,520	\$32,299	\$19,888
Total Strategic Petroleum Reserve	\$32,520	\$32,299	\$19,888
Total Strategic Petroleum Reserve - West Hackberry	\$32,520	\$32,299	\$19,888

Laboratory Table (Dollars In Thousands)

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rategic Petroleum Reserve Project Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Strategic Petroleum Reserve			
SPR Geotechnical Analytical Support			
SPR - Facilities Development	\$100,246	\$99,565	\$71,249
SPR Econometric Modelling Support			
Management	\$18,354	\$18,229	\$16,974
Total Strategic Petroleum Reserve	\$118,600	\$117,794	\$88,223
otal Strategic Petroleum Reserve Project Office	\$118,600	\$117,794	\$88,223

Laboratory Table (Dollars In Thousands)

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omas Jefferson National Accelerator Facility	FY 2017 Enacted	FY 2018 Annualized CR	FY 201
Science	Endoted	7 timadii20d OTC	rtoquot
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$0	\$273	\$387
High Energy Physics			
High Energy Physics	\$0	\$25	\$0
Nuclear Physics			
Nuclear Physics	\$112,211	\$108,244	\$109,267
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$150	\$0	\$0
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$8,000	\$0	\$
Safeguards and Security			
Safeguards and Security	\$2,709	\$2,728	\$2,758
Total Science	\$123,070	\$111,270	\$112,41
al Thomas Jefferson National Accelerator Facility	\$123,070	\$111,270	\$112,41

Laboratory Table (Dollars In Thousands)

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homas Jefferson Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Science			_
Program Direction			
Program Direction	\$1,905	\$1,921	\$2,088
Total Science	\$1,905	\$1,921	\$2,088
Total Thomas Jefferson Site Office	\$1,905	\$1,921	\$2,088

Laboratory Table (Dollars In Thousands)

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Undesignated Lab/Plant/Installation	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Office of Technology Transitions			
Office of Technology Transitions			
Office of Technology Transitions	\$6,906	\$6,859	\$8,505
Total Office of Technology Transitions	\$6,906	\$6,859	\$8,505
Northeast Home Heating Oil Reserve Account			
Northeast Home Heating Oil Reserve			
Northeast Home Heating Oil Reserve	\$9,114	\$9,076	\$9,038
Total Northeast Home Heating Oil Reserve Account	\$9,114	\$9,076	\$9,038
Total Undesignated Lab/Plant/Installation	\$16,020	\$15,935	\$17,543

Laboratory Table (Dollars In Thousands)

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University of Rochester	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Weapons Activities			
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$68,000	\$67,538	\$45,383
Total Weapons Activities	\$68,000	\$67,538	\$45,383
Total University of Rochester	\$68,000	\$67,538	\$45,383

Laboratory Table (Dollars In Thousands)

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shington Headquarters	FY 2017	FY 2018 Annualized CR	FY 2019
Innovative Tech Loan Guarantee Prog	Enacted	Allilualized CR	Reques
Administrative Operations			
Administrative Operations	\$37,000	\$36,749	\$10,000
Total Innovative Tech Loan Guarantee Prog	\$37,000	\$36,749	\$10,000
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$3,948	\$7,392	\$(
Resilient Distribution Systems	\$3,779	\$6,701	\$48
Cybersecurity for Energy Delivery Systems	\$2,858	\$25,079	\$(
Energy Storage	\$5,596	\$3,558	\$
Transformer Resilience and Advanced Components	\$269	\$1,114	\$2,00
Transmission Permitting and Technical Assistance	\$917	\$2,132	\$1,71
Infrastructure Security & Energy Restoration	\$3,856	\$3,795	\$0
Program Direction	\$21,989	\$21,433	\$14,62
Total Electricity Delivery and Energy Reliability	\$43,212	\$71,204	\$18,81
Total Electricity Delivery and Energy Reliability	\$43,212	\$71,204	\$18,81°
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$6,05
CEDS	\$0	\$0	\$5,50
Program Direction	\$0	\$0	\$4,90
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$16,45
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$16,45
Nuclear Energy			
University Research Program			
University Research	\$16	\$68	\$
Fuel Cycle R & D			
Fuel Cycle R & D	\$15,986	\$20,569	\$4,19
Radiological Facilities Management			
Radiological Facilities Management	\$54	\$233	\$2
Idaho Facilities Management			
Idaho Facilities Management	\$1,248	\$1,300	\$1,30
Idaho Sitewide Safeguards and Security		•	•

snington Headquarters	Enacted	Annualized CR	Reques
Innovative Tech Loan Guarantee Prog			
Administrative Operations			
Administrative Operations	\$37,000	\$36,749	\$10,00
Total Innovative Tech Loan Guarantee Prog	\$37,000	\$36,749	\$10,00
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Transmission Reliability	\$3,948	\$7,392	\$
Resilient Distribution Systems	\$3,779	\$6,701	\$48
Cybersecurity for Energy Delivery Systems	\$2,858	\$25,079	\$
Energy Storage	\$5,596	\$3,558	\$
Transformer Resilience and Advanced Components	\$269	\$1,114	\$2,00
Transmission Permitting and Technical Assistance	\$917	\$2,132	\$1,71
Infrastructure Security & Energy Restoration	\$3,856	\$3,795	\$
Program Direction	\$21,989	\$21,433	\$14,62
Total Electricity Delivery and Energy Reliability	\$43,212	\$71,204	\$18,81
Total Electricity Delivery and Energy Reliability	\$43,212	\$71,204	\$18,81
Cybersecurity, Energy Security, and Emergency Resp			
Cybersecurity, Energy Security, and Emergency Resp			
Infrastructure Security and Energy Restoration (ISER)	\$0	\$0	\$6,05
CEDS	\$0	\$0	\$5,50
Program Direction	\$0	\$0	\$4,90
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$16,45
Total Cybersecurity, Energy Security, and Emergency Resp	\$0	\$0	\$16,45
Nuclear Energy			
University Research Program			
University Research	\$16	\$68	\$
Fuel Cycle R & D	•	,	·
Fuel Cycle R & D	\$15,986	\$20,569	\$4,19
Radiological Facilities Management	4 . 5,5 . 5		¥ .,
Radiological Facilities Management	\$54	\$233	\$2
Idaho Facilities Management	Ψ.	Ψ=00	Ψ-
Idaho Facilities Management	\$1,248	\$1,300	\$1,30
Idaho Sitewide Safeguards and Security	ψ.,=.σ	ψ.,σσσ	ψ.,σσ
Idaho Sitewide Safeguards and Security	\$422	\$1,773	\$51
Program Direction-NE	Ψ.==	ψ1,110	Ψ0.
Program Direction-NE	\$43,697	\$42,571	\$32,13
Nuclear Energy Enabling Technologies	Ψ+0,097	Ψ+2,011	Ψ02,10
Nuclear Energy Enabling Technologies	\$7,675	\$7,674	\$7,04
Reactors Concepts RD&D	φ1,015	φ1,014	φ1,04
·	¢40 044	¢40.000	60 F 0
Reactors Concepts RD&D	\$10,241	\$12,333	\$8,53
International Nuclear Energy Cooperation	# 400	A 404	A 4 4
International Nuclear Energy Cooperation	\$129	\$421	\$412

Laboratory Table (Dollars In Thousands)

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shington Headquarters	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
SMR Licensing Technical Support	Enacted	Allitualized CR	Neques
SMR Licensing Technical Support	\$297	\$1,192	\$0
Supercritical Transformational Electric Power Generation	Ψ207	Ψ1,102	Ψ.
Supercritical Transformational Electric Power Generation	\$198	\$216	\$0
Total Nuclear Energy	\$79,963	\$88,350	\$54,154
Energy Efficiency and Renewable Energy			
Energy Efficiency and Renewable Energy			
Wind Energy	\$8,053	\$43,441	\$6,567
Program Direction	\$119,448	\$118,406	\$104,940
Geothermal Technologies	\$4,290	\$3,818	\$2,479
Hydrogen & Fuel Cell Technologies	\$5,585	\$74,577	\$13,262
Water Power	\$5,591	\$5,020	\$12,737
Solar Energy	\$95,391	\$146,490	\$39,500
Vehicle Technologies	\$16,039	\$13,954	\$2,860
Building Technologies	\$44,635	\$44,333	\$20,205
Federal Energy Management Program	\$7,353	\$7,170	\$2,500
Weatherization	\$225,655	\$224,107	\$0
State Energy Program Grants	\$41,638	\$41,298	\$0
Advanced Manufacturing	\$139,265	\$137,516	\$35,586
Strategic Programs	\$7,106	\$7,500	\$0
Bioenergy Technologies	\$14,750	\$13,358	\$0
Total Energy Efficiency and Renewable Energy	\$734,799	\$880,988	\$240,636
Total Energy Efficiency and Renewable Energy	\$734,799	\$880,988	\$240,636
Advanced Researched Projects Agency-Energy			
Advanced Researched Projects Agency-Energy			
Projects	\$276,750	\$274,871	\$0
Program Direction	\$29,250	\$29,051	\$0
Total Advanced Researched Projects Agency-Energy	\$306,000	\$303,922	\$0
Total Advanced Researched Projects Agency-Energy	\$306,000	\$303,922	\$0
Tribal Indian Energy Loan Guarantee Program			
Tribal Indian Energy Loan Guarantee Program			
Administrative Operations	\$500	\$497	\$0
Loan guarantee credit subsidy costs	\$8,500	\$8,442	\$0
Total Tribal Indian Energy Loan Guarantee Program	\$9,000	\$8,939	\$0
Total Tribal Indian Energy Loan Guarantee Program	\$9,000	\$8,939	\$0
Advance Technology Vehicles Man Loan Program			
Energy Transformation Acceleration Fund			
	\$5,000	\$4,966	\$1,000
Administrative Expenses	\$5,000	Ψ+,500	Ψ1,000

Uranium Enrichment Decon. & Decom. Fund

Laboratory Table (Dollars In Thousands)

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hington Headquarters	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
U/TH Reimbursements	Liladea	7 timadii20d OTC	request
U/TH Reimbursements	\$30,000	\$29,796	\$30,000
Total Uranium Enrichment Decon. & Decom. Fund	\$30,000	\$29,796	\$30,000
Nuclear Waste Disposal			
Yucca Mountain and Interim Storage			
Yucca Mountain and Interim Storage	\$0	\$0	\$35,264
Total Nuclear Waste Disposal	\$0	\$0	\$35,264
Science			
Advanced Scientific Computing Research			
Advanced Scientific Computing Research	\$94,972	\$42,803	\$114,755
Basic Energy Sciences			
Basic Energy Sciences	\$120,188	\$334,453	\$143,436
Biological and Environmental Research			
Biological and Environmental Research	\$37,909	\$113,566	\$53,020
Fusion Energy Sciences			
Fusion Energy Sciences	\$65,528	\$127,612	\$53,545
High Energy Physics			
High Energy Physics	\$59,415	\$106,090	\$77,626
Nuclear Physics			
Nuclear Physics	\$49,352	\$59,032	\$64,632
Workforce Development for Teachers and Scientists			
Workforce Development for Teachers and Scientists	\$0	\$19,368	\$19,000
Science Laboratories Infrastructure			
Science Laboratories Infrastructure	\$0	\$46,864	\$0
Safeguards and Security			
Safeguards and Security	\$8,504	\$9,354	\$10,479
Program Direction	***	***	
Program Direction	\$90,978	\$91,157	\$90,113
Total Science	\$526,846	\$950,299	\$626,606
Weapons Activities			
Directed Stockpile Work			
Directed Stockpile Work	\$81,035	\$80,481	\$286,959
Science			
Science Campaign	\$23,263	\$23,105	\$40,735
Engineering			
Engineering Campaign	\$2,044	\$2,030	\$6,351
Inertial Confinement Fusion Ignition High Yield			
Inertial Confinement Fusion Ignition High Yield Campaign	\$9,873	\$9,808	\$8,121
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$11,497	\$11,418	\$120,908
Defense Nuclear Security			
Defense Nuclear Security	\$37,075	\$36,823	\$31,731
Legacy Contractor Pensions	_		.
Legacy Contractor Pensions	\$248,492	\$246,804	\$162,292

Laboratory Table (Dollars In Thousands)

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hington Headquarters	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Information technology and Cybersecurity	Lildolou	7 IIII dail20d OTC	request
Information technology and Cybersecurity	\$90,068	\$89,457	\$142,464
Infrastructure and Operations	. ,	. ,	, ,
Infrastructure and Operations	\$29,498	\$29,298	\$156,616
Secure Transportation Asset			
Secure Transportation Asset	\$97,118	\$96,458	\$102,002
Advanced Manufacturing Development			
Advanced Manufacturing Development	\$1,223	\$1,217	\$2,478
Total Weapons Activities	\$631,186	\$626,899	\$1,060,657
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$110,453	\$109,591	\$118,675
Program Direction	\$64,000	\$63,565	\$70,653
Total Environment, Health, Safety and Security	\$174,453	\$173,156	\$189,328
Enterprise Assessments			
Enterprise Assessments	\$24,170	\$23,918	\$23,918
Program Direction	\$51,000	\$50,999	\$52,702
Total Enterprise Assessments	\$75,170	\$74,917	\$76,620
Specialized Security Activities			
Specialized Security Activities	\$237,912	\$236,296	\$254,378
Hearings and Appeals			
Program Direction	\$5,500	\$5,463	\$5,739
Office of Legacy Management			
Legacy Management	\$15,317	\$15,962	\$21,441
Total Other Defense Activities	\$508,352	\$505,794	\$547,506
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$24,159	\$23,994	\$29,300
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$22,448	\$22,293	\$59,954
Legacy Contractor Pensions			
Legacy Contractor Pensions	\$83,208	\$82,643	\$28,640
Global Material Security			
Global Material Security	\$4,023	\$3,996	\$7,704
Material Management and Minimization			
Material Management and Minimization	\$5,294	\$5,258	\$6,053
Nonproliferation and Arms Control			
Nonproliferation and Arms Control	\$3,375	\$3,351	\$14,601
Nonproliferation Construction	^- ^-	^- 00	#07.00
Nonproliferation Construction	\$785	\$780	\$27,200
Total Defense Nuclear Nonproliferation	\$143,292	\$142,315	\$173,452

Naval Reactors

Laboratory Table (Dollars In Thousands)

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shington Headquarters	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Naval Reactors Program		7	
Naval Reactors Program	\$88,911	\$88,307	\$118,118
Program Direction			
Program Direction	\$24,400	\$24,234	\$27,509
Total Naval Reactors	\$113,311	\$112,541	\$145,627
Federal Salaries and Expenses			
Federal Salaries and Expenses			
Federal Salaries and Expenses	\$282,369	\$280,454	\$306,224
Total Federal Salaries and Expenses	\$282,369	\$280,454	\$306,224
Departmental Administration			
Energy Policy and Sysems Analysis			
Energy Policy and Sysems Analysis	\$31,000	\$30,789	\$
Office of Policy			
Office of Policy	\$0	\$0	\$2,51
Total Office of Policy	\$0	\$0	\$2,510
Departmental Administration			
Program Direction	\$12,373	\$12,289	\$15,00
Total Departmental Administration	\$12,373	\$12,289	\$15,00
Small and Disadvantaged Business Utilization			
Program Direction	\$3,000	\$2,980	\$3,17
Total Small and Disadvantaged Business Utilization	\$3,000	\$2,980	\$3,17
International Affairs			
Program Direction	\$18,000	\$17,878	\$24,54
Office of Indian Energy			
Office of Indian Energy	\$3,369	\$9,158	\$8,40
Total Office of Indian Energy	\$3,369	\$9,158	\$8,40
Chief Financial Officer			
Program Direction	\$47,758	\$47,424	\$47,42
Program Direction			
Program Direction	\$24,500	\$24,334	\$25,62
Total Program Direction	\$24,500	\$24,334	\$25,62
Congressional, and Intergovernmental Affairs			
Program Direction	\$6,200	\$6,158	\$6,21
Public Affairs			
Program Direction	\$3,431	\$3,408	\$6,59
General Counsel	***		
Program Direction	\$33,000	\$32,776	\$33,07
Office of the Secretary	# 5.000	#5.054	05.00
Program Direction	\$5,089	\$5,054	\$5,39
Management Program Direction	#E0.004	¢EO EGE	Φ <i>E A</i> Ω 7
Program Direction Economic Impact & Diversity	\$52,924	\$52,565	\$54,87
Program Direction	\$10,169	\$10,100	\$10,00
Frogram Direction	φ IU, I09	φ10,100	φ10,00

Laboratory Table (Dollars In Thousands)

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shington Headquarters	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Reques
Chief Information Officer	Lilacica	Annualized ON	reques
Program Direction	\$33,262	\$33,036	\$37,758
Cybersecurity and Secure Management	\$21,006	\$20,863	\$36,670
Corporate IT Program Support	\$20,224	\$20,087	\$22,365
Total Chief Information Officer	\$74,492	\$73,986	\$96,793
Total Departmental Administration	\$325,305	\$328,899	\$339,634
Office of the Inspector General			
Office of the Inspector General			
Office of the Inspector General	\$48,692	\$48,361	\$51,330
Total Office of the Inspector General	\$48,692	\$48,361	\$51,330
Federal Energy Regulatory Commission			
Just and Reasonable Rates, Terms and Conditions			
Just and Reasonable Rates, Terms and Conditions	\$159,650	\$159,984	\$171,318
Safe, Reliable, Secure, & Efficient Infrastructure	. ,		
Safe, Reliable, Secure, & Efficient Infrastructure	\$123,576	\$121,498	\$130,090
Mission Support through Organizational Excellence			
Mission Support through Organizational Excellence	\$63,574	\$62,963	\$68,492
Total Federal Energy Regulatory Commission	\$346,800	\$344,445	\$369,900
Fossil Energy Research and Development			
CCS and Power Systems			
Carbon Storage	\$3,379	\$3,356	\$0
Advanced Energy Systems	\$2,747	\$2,728	\$(
Cross Cutting Research	\$4,655	\$4,623	\$(
Total CCS and Power Systems	\$10,781	\$10,707	\$(
Natural Gas Technologies			
Natural Gas Technologies	\$3,782	\$3,756	\$0
Program Direction			
Headquarters Program Direction	\$31,734	\$31,519	\$30,070
Special Recruitment Programs			
Special Recruitment Programs	\$700	\$695	\$200
Unconventional FE Technologies from Petroleum – Oil	04 774	£4.750	œ.
Unconventional FE Technologies from Petroleum – Oil	\$1,771	\$1,759	\$(
Total Fossil Energy Research and Development	\$48,768	\$48,436	\$30,270
Naval Petroleum and Oil Shale Reserves			
Naval Petroleum and Oil Shale Reserves			
Management	\$1,070	\$1,063	\$1,000
Total Naval Petroleum and Oil Shale Reserves	\$1,070	\$1,063	\$1,000
Defense Environmental Cleanup			
Program Direction			
Headquarters	\$90,752	\$84,026	\$88,087

Laboratory Table (Dollars In Thousands)

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phinaten Headauartera	FY 2017	FY 2018	FY 2019
shington Headquarters	Enacted	Annualized CR	Request
Program Support			
Program Support	\$14,979	\$14,878	\$12,979
Technology Development			
Technology Development	\$25,025	\$24,855	\$25,000
Excess Facilities			
Excess Facilities	\$0	\$0	\$150,000
Total Defense Environmental Cleanup	\$130,756	\$123,759	\$276,066
Strategic Petroleum Reserve			
SPR Econometric Modelling Support			
Management	\$8,511	\$8,453	\$8,430
Total Strategic Petroleum Reserve	\$8,511	\$8,453	\$8,430
Northeast Home Heating Oil Reserve Account			
Northeast Home Heating Oil Reserve			
Northeast Home Heating Oil Reserve	\$1,386	\$1,353	\$962
Total Northeast Home Heating Oil Reserve Account	\$1,386	\$1,353	\$962
Energy Information Administration			
Energy Information Administration			
National Energy Information System	\$122,000	\$121,171	\$115,035
Total Energy Information Administration	\$122,000	\$121,171	\$115,035
Defense EM Funded UE D&D Fund Contribution			
Uranium Enrichment D & D Fund Contribution			
Uranium Enrichment D & D Fund Contribution	\$563,000	\$559,177	\$0
Total Defense EM Funded UE D&D Fund Contribution	\$563,000	\$559,177	\$0
al Washington Headquarters	\$5,046,618	\$5,628,333	\$4,459,020

Laboratory Table (Dollars In Thousands)

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esta laglation Dilat Dlant	FY 2017	FY 2018	FY 2019
ste Isolation Pilot Plant	Enacted	Annualized CR	Request
Weapons Activities			
Infrastructure and Operations			
Infrastructure and Operations	\$1,847	\$1,834	\$0
Total Weapons Activities	\$1,847	\$1,834	\$0
Defense Nuclear Nonproliferation			
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$56	\$56	\$100
Total Defense Nuclear Nonproliferation	\$56	\$56	\$100
Defense Environmental Cleanup			
Waste Isolation Pilot Plant			
Operation and Maintenance	\$253,318	\$251,598	\$305,212
Transportation	\$19,868	\$19,733	\$25,500
Total Waste Isolation Pilot Plant	\$273,186	\$271,331	\$330,712
Total Defense Environmental Cleanup	\$273,186	\$271,331	\$330,712
al Waste Isolation Pilot Plant	\$275,089	\$273,221	\$330,812

Laboratory Table (Dollars In Thousands)

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Weldon Spring Site Office	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Request
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$7,911	\$8,000	\$2,996
Total Other Defense Activities	\$7,911	\$8,000	\$2,996
Total Weldon Spring Site Office	\$7,911	\$8,000	\$2,996

Laboratory Table (Dollars In Thousands)

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West Valley Demonstration Project	FY 2017	FY 2018	FY 2019
west valley Demonstration Project	Enacted	Annualized CR	Request
Non-Defense Environmental Cleanup			
West Valley Demonstration Project			
West Valley Demonstration Project	\$66,413	\$65,963	\$60,554
Total Non-Defense Environmental Cleanup	\$66,413	\$65,963	\$60,554
Defense Environmental Cleanup			
Safeguards and Security			
West Valley	\$3,215	\$3,193	\$3,133
Total Defense Environmental Cleanup	\$3,215	\$3,193	\$3,133
Total West Valley Demonstration Project	\$69,628	\$69,156	\$63,687

Laboratory Table (Dollars In Thousands)

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tern Area Power Administration	FY 2017	FY 2018	FY 2019
	Enacted	Annualized CR	Reques
Electricity Delivery and Energy Reliability			
Electricity Delivery and Energy Reliability			
Infrastructure Security & Energy Restoration	\$289	\$289	\$0
Program Direction	\$2	\$0	\$0
Total Electricity Delivery and Energy Reliability	\$291	\$289	\$0
Total Electricity Delivery and Energy Reliability	\$291	\$289	\$0
Departmental Administration			
Office of Indian Energy			
Office of Indian Energy	\$285	\$150	\$0
Total Departmental Administration	\$285	\$150	\$0
Falcon & Amistad - Operating & Maintenance Fund			
Falcon & Amistad Operating and Maintenance Fund			
Falcon & Amistad - Operating and Maintenance	\$4,070	\$4,042	\$5,207
Total Falcon & Amistad - Operating & Maintenance Fund	\$4,070	\$4,042	\$5,207
Western Area Power Admin. Const.,Rehab.,O&M			
Systems Operation and Maintenance			
Systems Operation and Maintenance	\$462,264	\$276,692	\$381,261
Program Direction			
Program Direction	\$220,154	\$218,395	\$199,347
Total Western Area Power Admin. Const.,Rehab.,O&M	\$682,418	\$495,087	\$580,608
Colorado River Basins Power Marketing Fund			
Equipment, Contracts and Other Related Expenses			
Colorado River Storage Project	\$151,324	\$127,055	\$157,389
Program Direction			
Program Direction	\$62,206	\$58,341	\$62,948
Total Colorado River Basins Power Marketing Fund	\$213,530	\$185,396	\$220,337

Laboratory Table (Dollars In Thousands)

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2 National Security Complex	FY 2017 Enacted	FY 2018 Annualized CR	FY 2019 Request
Weapons Activities			- 1
Directed Stockpile Work			
Directed Stockpile Work	\$421,793	\$418,929	\$520,934
Science			
Science Campaign	\$826	\$820	\$0
Engineering			
Engineering Campaign	\$2,332	\$2,316	\$2,560
Advanced Simulation & Computing			
Advanced Simulation & Computing Campaign	\$375	\$372	\$500
Defense Nuclear Security			
Defense Nuclear Security	\$169,042	\$167,894	\$173,018
Information technology and Cybersecurity		. ,	
Information technology and Cybersecurity	\$7,163	\$7,114	\$6,765
Infrastructure and Operations	, ,	,	, , , ,
Infrastructure and Operations	\$874,983	\$869,041	\$975,600
Secure Transportation Asset	*****	****	70.0,000
Secure Transportation Asset	\$0	\$0	\$5
Advanced Manufacturing Development	**	**	**
Advanced Manufacturing Development	\$32,857	\$32,634	\$34,987
Total Weapons Activities	\$1,509,371	\$1,499,120	\$1,714,369
Defense Nuclear Nonproliferation			
Defense Nuclear Nonproliferation R&D			
Defense Nuclear Nonproliferation R&D	\$499	\$496	\$668
Nuclear Counterterrorism and Incident Response			
Nuclear Counterterrorism Incident Response	\$2,707	\$2,689	\$2,871
Global Material Security		. ,	
Global Material Security	\$8,497	\$8,439	\$8,926
Material Management and Minimization			
Material Management and Minimization	\$41,377	\$41,096	\$35,427
Nonproliferation and Arms Control	, ,-	, , , , , , , , ,	, ,
Nonproliferation and Arms Control	\$1,330	\$1,321	\$1,099
Total Defense Nuclear Nonproliferation	\$54,410	\$54,041	\$48,991
al Y-12 National Security Complex	\$1,563,781	\$1,553,161	\$1,763,360

Laboratory Table (Dollars In Thousands)

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42 Cita Office	FY 2017	FY 2018 Annualized CR	FY 2019 Request
12 Site Office	Enacted		
Other Defense Activities			
Environment, Health, Safety and Security			
Environment, Health, Safety and Security	\$20	\$20	\$20
Total Other Defense Activities	\$20	\$20	\$20
Defense Environmental Cleanup			
Oak Ridge Reservation			
Nuclear Facility D & D, Y-12	\$61,751	\$61,332	\$30,214
OR Technology Development and Deployment	\$3,000	\$2,980	\$3,000
Total Oak Ridge Reservation	\$64,751	\$64,312	\$33,214
Total Defense Environmental Cleanup	\$64,751	\$64,312	\$33,214
otal Y-12 Site Office	\$64,771	\$64,332	\$33,234

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Yucca Mountain Site Office	FY 2017	FY 2018	FY 2019
rucca Mountain Site Office	Enacted	Annualized CR	Request
Other Defense Activities			
Office of Legacy Management			
Legacy Management	\$1,900	\$0	\$0
Total Other Defense Activities	\$1,900	\$0	\$0
Total Yucca Mountain Site Office	\$1,900	\$0	\$0