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	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Ames Laboratory	58,101	23,636	22,453
Ames Site Office	664	664	768
Argonne National Laboratory	808,219	741,113	691,759
Argonne Site Office	4,388	4,388	8,879
Bay Area Site Office	6,027	0	0
Berkeley Site Office	0	3,616	3,923
Bettis Atomic Power Laboratory	364,997	364,997	652,183
Brookhaven National Laboratory	572,004	603,501	625,604
Brookhaven Site Office	4,444	4,444	5,343
Carlsbad Area Office	18,685	18,630	20,177
Chicago Operations Office	426,027	294	58
Consolidated Business Center	103,127	95,517	103,327
Consolidated Service Center - Tennessee	15	0	0
East Tennessee Technology Park (K25)	168,961	168,961	124,946
Energy Technology Engineering Center	12,000	12,000	26,409
Fermi National Accelerator Laboratory	595,506	606,908	643,022
Fermi Site Office	3,452	3,452	3,651
Fernald Environmental Management Project	1,100	1,100	1,062
Fernald Site	11,902	11,902	11,988
Golden Field Office	440,694	696,493	1,221,385
Grand Junction Office	40,101	40,101	41,856
Hanford Site	1,016,279	1,016,279	907,090
Idaho National Laboratory	1,818,265	1,820,912	1,768,291
Idaho Operations Office	288,848	279,174	320,951
Kansas City National Security Complex (KCNSC)	1,209,622	1,171,535	1,326,434
Kansas City Site Office	10,448	11,346	13,842
Knolls Atomic Power Laboratory	654,727	654,727	653,950
Lawrence Berkeley National Laboratory	1,050,510	1,088,300	1,343,014
Lawrence Livermore National Laboratory	2,217,012	2,235,162	2,373,033
Lexington Office	200	200	200
Livermore Site Office	17,162	17,566	19,266
Los Alamos National Laboratory	3,647,553	3,448,106	4,575,112
Los Alamos Site Office	17,333	17,743	20,729
Miamisburg Site	5	5	5
Moab Site	47,833	47,833	67,000
Mound Site	12,738	12,738	12,083
National Energy Technology Lab	680,751	619,913	537,159
National Renewable Energy Laboratory	392,517	380,570	619,577
Naval Petroleum Reserve No 1	11,000	11,000	11,004
Naval Reactors Facility	325,121	325,121	503,000
Naval Reactors Laboratory Field Office	20,680	20,680	23,410

DEPARTMENT OF ENERGY Laboratory Table Summary Report FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Naval Research Laboratory	8,500	7,000	2,500
Nevada Field Office	23,808	22,189	26,229
Nevada National Security Site	842,004	832,221	712,041
Nevada Operations Office	5,065	5,065	3,900
NNSA Albuquerque Complex	1,326,627	1,393,933	1,257,761
NNSA Production Office (NPO)	86,098	46,927	118,268
Northeast Gasoline Supply Reserve (NGSR) - South Portland	0	0	2,638
Northeast Gasoline Supply Reserve (NGSR) - Revere	0	0	4,967
Northeast Gasoline Supply Reserve (NGSR) - Raritan Bay	0	0	14,110
Oak Ridge Institute for Science & Education	22,388	22,571	22,230
Oak Ridge National Laboratory	2,129,459	1,939,492	1,982,959
Oak Ridge National Laboratory Site Office	5,152	5,152	7,155
Oak Ridge Office	57,821	17,821	20,508
Oak Ridge Reservation	112,471	112,471	62,000
Oak Ridge Reservation (Off-Site)	5,900	5,900	5,300
Office of River Protection	1,668,205	1,668,205	1,631,317
Office of Scientific & Technical Information	12,659	12,497	15,834
Pacific Northwest National Laboratory	726,862	697,922	802,751
Pacific Northwest Site Office	5,066	5,066	6,058
Paducah Gaseous Diffusion Plant	330,242	330,242	296,693
Pantex Plant	987,702	973,379	1,143,584
Pinellas Site	4,535	4,535	4,164
Portsmouth Gaseous Diffusion Plant	556,864	545,864	624,031
Princeton Plasma Physics Laboratory	82,833	78,133	76,597
Princeton Site Office	1,991	1,991	2,190
Richland Operations Office	60,235	59,426	65,708
Rocky Flats Site	28,675	28,675	41,288
Sandia National Laboratories	2,812,674	2,662,115	2,996,354
Sandia Site Office	74,378	83,637	76,715
Savannah River National Laboratory	1,680	925	41,600
Savannah River Operations Office	262,730	252,600	277,032
Savannah River Site	2,571,746	2,637,491	2,957,928
Savannah River Site Office	500	500	500
Separations Process Research Unit	15,000	15,000	15,300
SLAC National Accelerator Laboratory	434,431	429,295	481,688
SLAC Site Office	0	2,411	2,615
Southwestern Power Administration Office	116,194	116,194	162,802
Strategic Petroleum Reserve - Bayou Choctow	13,533	13,533	16,281
Strategic Petroleum Reserve - Big Hill	20,740	20,740	21,040
Strategic Petroleum Reserve - Bryan Mound	18,519	18,519	19,245
Strategic Petroleum Reserve - West Hackberry	23,383	23,383	20,484

DEPARTMENT OF ENERGY Laboratory Table Summary Report FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Strategic Petroleum Reserve Project Office	99,515	99,515	110,610
Thomas Jefferson National Accelerator Facility	135,200	153,147	162,059
Thomas Jefferson Site Office	1,812	1,812	2,461
Undesignated Lab/Plant/Installation	308,151	681,126	953,629
University of Rochester	82,000	82,000	75,000
Washington Headquarters	5,462,374	4,758,832	5,905,161
Waste Isolation Pilot Plant	424,327	419,867	468,906
Weldon Spring Site Office	4,092	4,092	5,131
West Valley Demonstration Project	92,411	92,411	94,259
Western Area Power Administration Office	68,215	68,200	90,392
Y-12 National Security Complex	2,123,781	2,201,851	2,022,049
Y-12 Site Office	47,900	47,900	38,020
Grants	691,454	1,625,325	1,791,299
Undesignated LPI	-173,055	-5,860	2,087,109
Total by Lab, Plant, and Installation	41,903,865	41,903,865	49,152,393

Laboratory Table
Ames Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Ames Laboratory			
Research - Basic Energy Sciences	16,782	16,782	16,782
Basic Energy Sciences	16,782	16,782	16,782
Research - Biological & Environmental Research	1,250	1,250	0
Biological and Environmental Research	1,250	1,250	0
Research - Fusion Energy Sciences	275	275	0
Fusion Energy Sciences	275	275	0
Research - High Energy Physics	1,618	1,600	2,000
High Energy Physics	1,618	1,600	2,000
21-SC-73, Ames Infrastructure Modernization	150	0	0
Construction - Science Laboratories Infrastructure	150	0	0
Science Laboratories Infrastructure	150	0	0
Safeguards and Security - SC	1,231	1,231	2,671
Vehicle Technologies	300	300	300
Hydrogen and Fuel Cells Technologies	9,100	200	200
Sustainable Transportation	9,400	500	500
Advanced Manufacturing	25,397	0	0
Energy Efficiency	25,397	0	0
Advanced Energy Systems	730	730	0
Cross Cutting Research	806	806	0
Advanced Coal Energy Systems & CCUS	1,536	1,536	0
Crosscutting Technology Development	462	462	500
Nuclear Energy Enabling Technologies	462	462	500
Total Ames Laboratory	58,101	23,636	22,453

Laboratory Table
Ames Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
s Site Office			
Direction - SC	664	664	768
Site Office	664	664	768

DEPARTMENT OF ENERGY
Laboratory Table
Argonne National Laboratory FY 2023
(Dollars in Thousands)

Argonne National Laboratory FY 2021 Enacted FY 2022 Annualized CR FY 2023 Request Deity Request	40 40 40 5,000 5,000
Tritium Sustainment and Modernization 38 40 Tritium and Domestic Uranium Enrichment 38 40 Production Modernization 38 40 Dynamic Materials Properties 3,750 3,250 Assessment Science 3,750 3,250 Stockpile Research, Technology, and Engineering 3,750 3,250	40 40 5,000 5,000
Tritium and Domestic Uranium Enrichment 38 40 Production Modernization 38 40 Dynamic Materials Properties 3,750 3,250 Assessment Science 3,750 3,250 Stockpile Research, Technology, and Engineering 3,750 3,250	40 40 5,000 5,000
Production Modernization 38 40 Dynamic Materials Properties 3,750 3,250 Assessment Science 3,750 3,250 Stockpile Research, Technology, and Engineering 3,750 3,250	40 5,000 5,000
Dynamic Materials Properties3,7503,250Assessment Science3,7503,250Stockpile Research, Technology, and Engineering3,7503,250	5,000 5,000
Assessment Science 3,750 3,250 Stockpile Research, Technology, and Engineering 3,750 3,250	5,000
Stockpile Research, Technology, and Engineering 3,750 3,250	
	5,000
Conversion 18,961 16,562	
	17,047
Nuclear Material Removal 1,800 550	800
Material Disposition 150 0	100
Laboratory and Partnership Support 2,953 0	0
Material Management and Minimization 23,864 17,112	17,947
Radiological Security 2,548 2,327	2,268
Nuclear Smuggling Detection and Deterrence 324 1,000	330
Global Material Security 2,872 3,327	2,598
Nonproliferation & Arms Control 10,064 10,064	12,761
Proliferation Detection R&D 3,090 2,510	3,475
Nonproliferation Fuels Development 4,400 771	0
Forensics R&D 875 575	876
Nonproliferation Stewardship Program 375 0	383
Defense Nuclear Nonproliferation R&D 8,740 3,856	4,734
Emergency Operations 230 30	50
Counterterrorism and Counterproliferation 3,358 3,358	3,880
Nuclear Counterterrorism & Incident Response 3,588 3,388	3,930
Program Direction - National Nuclear Security Administration 608 684	923
Research - Advanced Scientific Computing Research 161,432 161,104	67,746
Advanced Scientific Computing Research 161,432 161,104	67,746
Research - Basic Energy Sciences 223,706 238,314 2	22,150
18-SC-10, Advanced Photon Source Upgrade (APS-U), ANL 160,000 101,000	9,200
Construction - Basic Energy Sciences 160,000 101,000	9,200
Basic Energy Sciences 383,706 339,314 2	31,350
Research - Biological & Environmental Research 33,868 33,868	11,007
Biological and Environmental Research 33,868 33,868	11,007
Research - Fusion Energy Sciences 389 200	330
Fusion Energy Sciences 389 200	330
Research - High Energy Physics 16,795 13,818	16,061
High Energy Physics 16,795 13,818	16,061
Operations and Maintenance - Nuclear Physics 30,552 31,235	34,321
Nuclear Physics 30,552 31,235	34,321
20-SC-77, Argonne Utilities Upgrade, ANL (20-SC-79) 500 500	8,000
Construction - Science Laboratories Infrastructure 500 500	8,000
Science Laboratories Infrastructure 500 500	8,000
Safeguards and Security - SC 10,469 10,469	18,985
Vehicle Technologies 45,640 48,355	14,500
Bioenergy Technologies 12,800 12,635	12,500
Hydrogen and Fuel Cells Technologies 7,412 6,800	7,300
Sustainable Transportation 65,852 67,790	64,300
Solar Energy Technologies 2,025 2,025	2,800
Wind Energy Technologies 2,318 2,405	6,640

DEPARTMENT OF ENERGY
Laboratory Table
Argonne National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Water Power Technologies	1,000	2,091	5,973
Renewable Power	5,343	6,521	15,413
Advanced Manufacturing	6,206	1,300	1,500
Building Technologies	2,282	1,550	1,897
Energy Efficiency	8,488	2,850	3,397
Strategic Programs	800	200	1,500
Corporate Support	800	200	1,500
Transmission Reliability and Resilience	3,972	0	3,250
Energy Delivery Grid Operations Technology	0	0	1,300
Resilient Distribution Systems	1,328	0	1,300
Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	500
Energy Storage R&D	100	0	100
Energy Storage	100	0	100
DCEI Energy Mission Assurance	500	500	0
Transmission Permitting and Technical Assistance	250	0	0
Infrastructure Security and Energy Restoration	3,300	3,300	0
Response and Restoration	0	0	1,700
Information Sharing, Partnerships and Exercises	0	0	1,900
Advanced Oil and Gas Prod Tech (Unconv FE)	150	150	0
LWR Sustainability	0	0	250
Advanced Reactor Technologies	6,385	6,385	7,500
Reactor Concepts RD&D	6,385	6,385	7,750
Materials Recovery and Waste Form Development	1,060	1,060	1,625
Accident Tolerant Fuels	120	120	131
Triso Fuel and Graphite Qualification	0	450	330
Fuel Cycle Laboratory R&D	2,440	2,440	5,685
Used Nuclear Fuel Disposition R&D	1,500	1,500	1,500
Integrated Waste Management System	200	200	1,900
Fuel Cycle Research & Development	5,320	5,770	11,171
Crosscutting Technology Development	825	825	1,000
Joint Modeling and Simulation Program	5,675	5,675	4,800
Nuclear Science User Facilities	200	200	300
Transformational Challenge Reactor	1,100	1,100	0
Nuclear Energy Enabling Technologies	7,800	7,800	6,100
Regulatory Development	4,760	4,760	3,700
Advanced Reactors Safeguards	700	700	250
Advanced Reactors Demonstration Program	5,460	5,460	3,950
International Nuclear Energy Cooperation	0	0	250
Program Direction - Nuclear Energy	8	8	0
Interim Storage	500	500	0
Strategic Partnership Projects	100	100	100
Strategic Partnership Projects and Revenues	100	100	100
Environment, Health, Safety & Security	945	945	945
Environment, Health, Safety, and Security	945	945	945
Office of Technology Transitions (DA)	55	55	0
Advanced Technology Vehicle Manufacturing Loan Program	328	550	600
Grid Technical Assistance	0	0	500
otal Argonne National Laboratory	808,219	741,113	691,759

Laboratory Table
Argonne Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Argonne Site Office			
Program Direction - SC	3,997	3,997	4,879
National Reactor Innovation Center	391	391	4,000
Advanced Reactors Demonstration Program	391	391	4,000
Total Argonne Site Office	4,388	4,388	8,879

Laboratory Table
Bay Area Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023	
	Enacted	Annualized CR	Request Detail	
Site Office				
- SC	6,027	0	1	0
Office	6,027	0		0

Laboratory Table
Berkeley Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
te Office	·		_
	O	3,616	3,923
	0	3,616	3,923

Laboratory Table
Bettis Atomic Power Laboratory FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Bettis Atomic Power Laboratory			
Naval Reactors Development	250,006	250,006	389,190
Columbia-Class Reactor Systems Development	15,028	15,028	10,244
S8G Prototype Refueling	2,888	2,888	0
Naval Reactors Operations and Infrastructure	82,713	82,713	188,315
23-D-533 BL Component Test Complex	0	0	52,200
14-D-901 Spent Fuel Handling Recapitalization Project, NRF	14,362	14,362	12,234
Construction - Naval Reactors	14,362	14,362	64,434
Total Bettis Atomic Power Laboratory	364,997	364,997	652,183

Laboratory Table
Brookhaven National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Brookhaven National Laboratory			_
Safety and Environmental Operations	464	477	515
Operating	464	477	515
Infrastructure and Operations	464	477	515
Conversion	700	250	300
Material Management and Minimization	700	250	300
Radiological Security	461	205	410
Nuclear Smuggling Detection and Deterrence	1,407	1,012	1,432
Global Material Security	1,868	1,217	1,842
Nonproliferation & Arms Control	2,886	2,886	3,659
Proliferation Detection R&D	5,771	9,093	6,489
Forensics R&D	564	475	564
Defense Nuclear Nonproliferation R&D	6,335	9,568	7,053
Counterterrorism and Counterproliferation	2,672	2,839	3,509
Nuclear Counterterrorism & Incident Response	2,672	2,839	3,509
Program Direction - National Nuclear Security Administration	6	6	6
Research - Advanced Scientific Computing Research	2,313	1,580	2,643
Advanced Scientific Computing Research	2,313	1,580	2,643
Research - Basic Energy Sciences	167,542	183,954	211,501
Basic Energy Sciences	167,542	183,954	211,501
Research - Biological & Environmental Research	17,353	17,353	18,900
Biological and Environmental Research	17,353	17,353	18,900
Research - Fusion Energy Sciences	2,409	0	2,409
Fusion Energy Sciences	2,409	0	2,409
Research - High Energy Physics	75,692	69,273	75,568
11-SC-40, Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment	3,516	6,000	10,000
Construction - High Energy Physics	3,516	6,000	10,000
High Energy Physics	79,208	75,273	85,568
Operations and Maintenance - Nuclear Physics	220,175	212,345	213,056
20-SC-52, Electron Ion Collider, BNL	5,000	3,750	20,000
Construction - Nuclear Physics	5,000	3,750	20,000
Nuclear Physics	225,175	216,095	233,056
Research - Accelerator R&D and Production	0	5,367	6,176
Accelerator R&D and Production	0	5,367	6,176
Facilities and Infrastructure (SLI)	0	0	4,000
20-SC-71, Critical Utilities Rehabilitation Project, BNL	20,000	26,000	13,000
19-SC-71, Science User Support Center, BNL	20,000	38,000	0
Construction - Science Laboratories Infrastructure	40,000	64,000	13,000
Science Laboratories Infrastructure	40,000	64,000	17,000
Safeguards and Security - SC	14,233	14,233	21,275
Vehicle Technologies	2,900	4,675	4,000
Hydrogen and Fuel Cells Technologies	1,000	200	200
Sustainable Transportation	3,900	4,875	4,200
Solar Energy Technologies	1,267	1,267	1,745
Geothermal Technologies	50	25	0
Renewable Power	1,317	1,292	1,745
Building Technologies	700	213	213
	700	213	2.0
Energy Efficiency	700	213	213

DEPARTMENT OF ENERGY Laboratory Table Brookhaven National Laboratory FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Accident Tolerant Fuels	656	656	715
Fuel Cycle Laboratory R&D	300	300	699
Fuel Cycle Research & Development	956	956	1,414
Crosscutting Technology Development	17	17	20
Nuclear Energy Enabling Technologies	17	17	20
Advanced Reactors Safeguards	445	445	350
Advanced Reactors Demonstration Program	445	445	350
Strategic Partnership Projects	275	275	1,000
Strategic Partnership Projects and Revenues	275	275	1,000
Environment, Health, Safety & Security	250	250	250
Environment, Health, Safety, and Security	250	250	250
Office of Technology Transitions (DA)	80	80	0
Total Brookhaven National Laboratory	572,004	603,501	625,604

Laboratory Table
Brookhaven Site Office FY 2023
(Dollars in Thousands)

		1	
	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Brookhaven Site Office			
Program Direction - SC	4,444	4,444	5,343
Total Brookhaven Site Office	4,444	4,444	5,343

Laboratory Table
Carlsbad Area Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Carlsbad Area Office			
Radiological Security	55	0	49
Global Material Security	55	0	49
Program Direction - National Nuclear Security Administration	1	1	1
Program Direction - Defense Environmental Cleanup	11,823	11,823	13,321
Safeguards and Security - Defense Environmental Cleanup	6,806	6,806	6,806
Total Carlsbad Area Office	18,685	18,630	20,177

Laboratory Table
Chicago Operations Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Chicago Operations Office			
Program Direction - National Nuclear Security Administration	6	6	6
Research - Basic Energy Sciences	217,479	0	0
Basic Energy Sciences	217,479	0	0
Research - Biological & Environmental Research	23,772	0	0
Biological and Environmental Research	23,772	0	0
Research - Fusion Energy Sciences	41,878	0	0
Fusion Energy Sciences	41,878	0	0
Operations and Maintenance - Nuclear Physics	140,954	0	0
Nuclear Physics	140,954	0	0
Payment In Lieu of Taxes	1,650	0	0
Science Laboratories Infrastructure	1,650	0	0
Joint Modeling and Simulation Program	234	234	0
Nuclear Science User Facilities	2	2	2
Nuclear Energy Enabling Technologies	236	236	2
Program Direction - Nuclear Energy	2	2	0
Environment, Health, Safety & Security	50	50	50
Environment, Health, Safety, and Security	50	50	50
Total Chicago Operations Office	426,027	294	58

Laboratory Table
Consolidated Business Center FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Consolidated Business Center			
Payment In Lieu of Taxes	3,000	4,820	4,891
Oak Ridge Landlord	5,860	6,430	6,559
Science Laboratories Infrastructure	8,860	11,250	11,450
Safeguards and Security - SC	4,397	4,397	5,635
Program Direction - SC	43,481	43,481	45,799
Environment, Health, Safety & Security	259	259	259
Environment, Health, Safety, and Security	259	259	259
Closure Sites Administration	2,087	2,087	2,452
Program Direction - Defense Environmental Cleanup	34,043	34,043	37,732
Small Sites - NDEC	10,000	0	0
Total Consolidated Business Center	103,127	95,517	103,327

Laboratory Table
Consolidated Service Center - Tennessee FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Consolidated Service Center - Tennessee			
Transmission Reliability and Resilience	15	0	0
Total Consolidated Service Center - Tennessee	15	0	0

DEPARTMENT OF ENERGY
Laboratory Table
East Tennessee Technology Park (K25) FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
East Tennessee Technology Park (K25)			
Safeguards and Security - Defense Environmental Cleanup	9,260	9,260	12,000
Oak Ridge Reservation (D&D Fund)	134,701	134,701	92,946
Pension and Community and Regulatory Support	25,000	25,000	20,000
Total East Tennessee Technology Park (K25)	168,961	168,961	124,946

DEPARTMENT OF ENERGY
Laboratory Table
Energy Technology Engineering Center FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
rgy Technology Engineering Center			
all Sites - NDEC	12,000	12,000	26,409
ergy Technology Engineering Center	12,000	12,000	26,409

DEPARTMENT OF ENERGY
Laboratory Table
Fermi National Accelerator Laboratory FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Fermi National Accelerator Laboratory	Endoted	7 till dail20d Olt	request Betain
Proliferation Detection R&D	750	750	843
Defense Nuclear Nonproliferation R&D	750	750	843
Research - Advanced Scientific Computing Research	874	700	1,778
Advanced Scientific Computing Research	874	700	1,778
Research - High Energy Physics	326,113	301,673	318,163
18-SC-42, Proton Improvement Plan II (PIP-II), FNAL	79,000	90,000	120,000
11-SC-40, Long Baseline Neutrino Facility/Deep Underground Neutrino Experiment	167,484	170,000	166,000
11-SC-41, Muon to Electron Conversion Experiment, FNAL	2,000	13,000	2,000
Construction - High Energy Physics	248,484	273,000	288,000
High Energy Physics	574,597	574,673	606,163
Research - Accelerator R&D and Production	0	0	23
Accelerator R&D and Production	0	0	23
Facilities and Infrastructure (SLI)	0	11,500	0
20-SC-80, Utilities Infrastructure Project, FNAL (20-SC-82)	500	500	20,000
17-SC-71, Integrated Engineering Research Center, FNAL	10,250	10,250	0
Construction - Science Laboratories Infrastructure	10,750	10,750	20,000
Science Laboratories Infrastructure	10,750	22,250	20,000
Safeguards and Security - SC	8,480	8,480	14,215
Office of Technology Transitions (DA)	55	55	0
Total Fermi National Accelerator Laboratory	595,506	606,908	643,022

Laboratory Table
Fermi Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
ite Office			
ion - SC	3,452	3,452	3,651
Site Office	3,452	3,452	3,651

DEPARTMENT OF ENERGY
Laboratory Table
Fernald Environmental Management Project FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Fernald Environmental Management Project			
Closure Sites Administration	1,100	1,100	1,062
Total Fernald Environmental Management Project	1,100	1,100	1,062

Laboratory Table Fernald Site FY 2023 (Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Fernald Site			
Legacy Management Activities - Defense	11,902	11,902	11,988
Legacy Management	11,902	11,902	11,988
Total Fernald Site	11,902	11,902	11,988

Laboratory Table
Golden Field Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Golden Field Office			
Vehicle Technologies	0	5,000	0
Bioenergy Technologies	87,000	93,000	180,000
Hydrogen and Fuel Cells Technologies	60,691	63,500	90,600
Sustainable Transportation	147,691	161,500	270,600
Wind Energy Technologies	34,472	28,159	130,889
Water Power Technologies	53,050	39,650	77,792
Geothermal Technologies	64,240	78,725	170,000
Renewable Power	151,762	146,534	378,681
Advanced Manufacturing	80,275	283,846	475,000
Building Technologies	19,223	34,198	57,600
Federal Energy Management Program (EERE)	13,000	20,000	0
Weatherization Assistance Program (EERE)	0	24,800	0
Training and Technical Assistance (EERE)	2,075	1,900	0
State Energy Program Grants (EERE)	2,150	1,000	0
Weatherization and Intergovernmental Programs	4,225	27,700	0
Energy Efficiency	116,723	365,744	532,600
Program Direction - Energy Efficiency and Renewable Energy	24,516	22,712	36,250
Corporate Support	24,516	22,712	36,250
Loan Guarantee Program	2	3	3
Program Direction - OCED	0	0	3,251
Total Golden Field Office	440,694	696,493	1,221,385

Laboratory Table
Grand Junction Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Grand Junction Office			
Legacy Management Activities - Defense	40,101	40,101	41,856
Legacy Management	40,101	40,101	41,856
Total Grand Junction Office	40,101	40,101	41,856

Laboratory Table
Hanford Site FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Hanford Site			
Central Plateau Remediation	670,000	670,000	650,240
River Corridor and Other Cleanup Operations	232,479	232,479	135,000
18-D-404 Modification of Waste Encapsulation and Storage Facility	15,000	15,000	3,100
22-D-401 L-888, 400 Area Fire Station	0	0	3,100
22-D-402 L-897, 200 Area Water Treatment Facility	0	0	8,900
23-D-404 181D Export Water System Reconfiguration and Upgrade	0	0	6,770
23-D-405 181B Export Water System Reconfiguration and Upgrade	0	0	480
Construction - Richland	15,000	15,000	22,350
Richland	917,479	917,479	807,590
Safeguards and Security - Defense Environmental Cleanup	96,300	96,300	96,300
Fast Flux Test Reactor Facility (WA)	2,500	2,500	3,200
Total Hanford Site	1,016,279	1,016,279	907,090

Laboratory Table
Idaho National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Idaho National Laboratory			
Stockpile Sustainment	200	0	0
Stockpile Management	200	0	0
Tritium Sustainment and Modernization	1,905	2,467	4,887
Tritium and Domestic Uranium Enrichment	1,905	2,467	4,887
Production Modernization	1,905	2,467	4,887
Weapons Survivability	410	0	0
Engineering and Integrated Assessments	410	0	0
Stockpile Research, Technology, and Engineering	410	0	0
Safety and Environmental Operations	975	1,015	1,155
Operating	975	1,015	1,155
Infrastructure and Operations	975	1,015	1,155
Conversion	45,914	34,650	49,850
Nuclear Material Removal	8,685	9,100	13,030
Material Management and Minimization	54,599	43,750	62,880
International Nuclear Security	2,327	5,934	2,392
Radiological Security	10,939	13,100	9,739
Nuclear Smuggling Detection and Deterrence	0	1,675	0
Global Material Security	13,266	20,709	12,131
Nonproliferation & Arms Control	2,146	2,146	2,721
Proliferation Detection R&D	5,945	5,540	6,684
Nonproliferation Fuels Development	8,340	1,508	0
Forensics R&D	937	900	937
Nonproliferation Stewardship Program	450	200	4,993
Defense Nuclear Nonproliferation R&D	15,672	8,148	12,614
Counterterrorism and Counterproliferation	4,890	5,622	6,815
Nuclear Counterterrorism & Incident Response	4,890	5,622	6,815
Naval Reactors Development	91,000	91,000	17,722
S8G Prototype Refueling	738	738	0
Naval Reactors Operations and Infrastructure	183,809	183,809	178,169
Program Direction - National Nuclear Security Administration	166	206	6
Research - Advanced Scientific Computing Research	70	0	0
Advanced Scientific Computing Research	70	0	0
Research - Basic Energy Sciences	570	570	570
Basic Energy Sciences	570	570	570
Research - Fusion Energy Sciences	1,646	1,646	2,800
Fusion Energy Sciences	1,646	1,646	2,800
Vehicle Technologies	9,825	11,460	11,000
Bioenergy Technologies	15,900	15,900	15,000
Hydrogen and Fuel Cells Technologies	4,350	7,600	8,100
Sustainable Transportation	30,075	34,960	34,100
Solar Energy Technologies	80,534	80,534	131,190
Wind Energy Technologies	1,534	1,170	4,394
Water Power Technologies	1,570	4,355	10,232
Geothermal Technologies	100	71	0
Renewable Power	83,738	86,130	145,816
Advanced Manufacturing	3,939	0	0
Building Technologies	0	815	0
Federal Energy Management Program (EERE)	442	600	0

Laboratory Table
Idaho National Laboratory FY 2023
(Dollars in Thousands)

Pengy Efficiency		FY 2021	FY 2022	FY 2023
Tomestication Retability and Resilience 3.286 0 5.350 Eneing Delivery Grid Operations Technology 1.40 0 0 7.00 Resilient Destribution Systems 1.40 0 0 1.00 Cyber Resilient & Secure Utility Commiscation Network (Securinity) 50 0 0 1.00 Energy Storage 50 0 0 50 Turnsforms Resilience and Advanced Components 100 0 0 0 Objects security for Energy Delivery Systems 27,700 0 0 0 0 Information Stanting Presentation 0 0 0 0 3,000 Response and Restoration 0 0 0 0 3,000 Response and Restoration 10 10 0 0 3,000 Color Coulting Response Accessed Sections 110 110 0 0 0 Closs and Power Systems & CCUS 2244 24 0 0 0 1,000 0 1,000 0 1,000				
Emission Delivery Ond Operations Technology	Energy Efficiency	4,381	1,415	0
Pealiner Clastifuction Systems	Transmission Reliability and Resilience	3,266	0	5,350
Cyber Resilient & Scrue Utility Communication Network (SecureNet) 0 0 1,00 Energy Storage R& 50 0 0 100 Energy Storage 50 0 0 0 Transformer Resilience and Advanced Components 150 27,80 27,80 20 Observation for Energy Pediency Systems 27,90 27,80 3,00 3 Infrastruction Seating, Partnerships and Energies 10 0 0 3,00 Response and Restoration 10 10 0 3,00 Cash Annuagement Technology and Tools 110 110 0 0 3,00 Response and Restoration 10 10 0 0 3,00 Cash Annuage Teacher 10 11 11 0 10 Cash Decapture 1,00 1,00 1,00 10 0 3,00 Cash Annuage Teacher 2,00 1,00 1,00 3,00 10 1,00 1,00 1,00 1,00 1,00 1,00 1,00	Energy Delivery Grid Operations Technology	0	0	700
Energy Storage RAD 55 0 0 Energy Storage 35 0 0 Transformer Realience and Advanced Components 190 27,780 20 Cybersecutiry for Energy Delivery Systems 27,780 27,780 20 Risk Management Technology and Tools 0 0 3,000 Response and Restoration 0 0 0 3,000 Response and Restoration 0 0 0 3,000 Cons Condition Research 110 110 10 0 Cons Culting Research 641 641 0 0 Advanced Energy Systems 1,003 1,003 1,003 1,003 University Led Research & Development 0 0 0 3,500 University Led Research & Development 1,08 1,168 1,174 1,174 University Led Research & Development 1,08 1,176 1,174 1,174 1,174 1,174 1,174 1,174 1,174 1,174 1,174 1,174 1,174	Resilient Distribution Systems	1,460	0	1,300
Energy Storage	Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	1,000
Transformer Resilience and Advanced Components 190 0 500 Cyclessecularly for Enerry Delivery Systems 27,780 27,780 0 Risk Management Technology and Tools 0 0 37,000 Risk Management Technology and Tools 0 0 37,000 Response and Restoration 0 0 0 3,000 Carbon Copture 110 110 0	Energy Storage R&D	50	0	100
Cybersecutity for Energy Petivary Systems 27,780 27,780 0 Infrastructure Security and Energy Restoration 6,000 6,000 0 Response and Restoration 0 0 0 3,000 Response and Restoration 0	Energy Storage	50	0	100
Infrastructure Security and Energy Restoration 6,000 0.00 37,000 Risk Management Technology and Tools 0 0 37,000 Response and Restoration 0 0 0 30,000 Information Sharing, Partnerships and Exercises 10 110 0 CS and Power Systems 11,000 11,000 10 0 Advanced Energy Systems 1,000 1,000 3,000 0 3,000 Advanced Energy Systems & CCUS 2,244 0 0 3,500 0 3,500 University Led Research & Development 0 0 0 3,500 1,743 0 1,743<	Transformer Resilience and Advanced Components	190	0	500
Risk Management Technology and Tools 37,000 Response and Restoration 0 0 36,000 Corn Capture 110 1110 0 0 CCS and Power Systems 110 110 0 0 Advanced Energy Systems 1,000 1,000 0 0 Advanced Case Energy Systems & CCUS 2,244 2,244 0 0 University Led Research & Development 0 0 3,500 University Fuel Services (RRI) 0 0 1,748 Advanced Staff RR BZ 1,388 1,388 1,500 LWR Sustainability 17,833 17,683 15,470 Advanced Staff RR BZ 1,988 1,788 15,470 Advanced Staff RR BZ 1,988 1,788 15,400 Materials Recovery and Waste Forn Development 1,000 0 0 Materials Recovery and Waste Forn Development 1,989 2,900 2,110 Yeal Cycle Laboratory R&D 8,000 8,000 1,10 Puel Cycle Laboratory R&D <t< td=""><td>Cybersecurity for Energy Delivery Systems</td><td>27,780</td><td>27,780</td><td>0</td></t<>	Cybersecurity for Energy Delivery Systems	27,780	27,780	0
Response and Restoration 0 0 3,000 Information Sharing, Partnerships and Exercises 0 0 0 4,000 Carbon Cappare 110 110 0 0 CCS and Power Systems 110 110 10 0 Advanced Energy Systems 11,603 1,603 1,603 0 0 Advanced Coal Energy Systems & CCUS 2,244 2,244 2,04 0 0 3,500 Advanced Coal Energy Systems & CCUS 2,244 2,244 2,04 0 3,500 1,603	Infrastructure Security and Energy Restoration	6,300	6,300	0
Information Sharing, Partnerships and Exercises 0 0 4.000 Carbon Capture 110 110 0 CCS and Power Systems 1160 110 0 Advanced Energy Systems 1.603 1,603 1,603 Advanced Coal Energy Systems & CCUS 2.244 4 4 University Led Research & Development 0 0 3,500 University Eugl Services (RRI) 0 0 0 3,500 Low Ray Systems 1,665 1,665 1,660 1,670 Low Research & Development 10,665 1,066 1,600 Low Ray Systems & Energy Systems & CUS 1,665 1,665 1,600 Low Ray Systems & Energy Systems & CUS 1,665 1,665 1,600 University Fuel Research & Development & Customer & C	Risk Management Technology and Tools	0	0	37,000
Carbon Capture 110 110 0 CGS and Power Systems 110 110 0 A Avanaced Energy Systems 1,603 1,603 0 Cross Cutting Research 641 641 641 0 Advanced Coal Energy Systems & CCUS 2,244 2,244 0 University Led Research & Development 0 0 3,500 University Led Research & Development 0 0 3,500 Africanced SMR RAD 1,388 1,388 1,200 Africanced SMR RAD 1,683 17,683 15,478 Africanced SMR RAD 1,683 17,683 15,478 Africanced Reactor Technologies 10,665 10,666 16,000 Reactor Concepts RD&D 29,736 29,736 29,736 Africanced SMR radiations 1,605 0 0 Mining, Conversion, and Transportation 450 0 0 Milerials Recovery and Waster Form Development 17,988 17,988 27,400 Actival Lance Lance Lance Form Development <td< td=""><td>Response and Restoration</td><td>0</td><td>0</td><td>3,600</td></td<>	Response and Restoration	0	0	3,600
CCS and Power Systems 110 110 10 Advanced Energy Systems 1.603 1.603 0.60 Cross Cutting Research 6441 6441 6441 0 Advanced Coal Energy Systems & CCUS 2,244 2,244 2,043 University Led Research & Development 0 0 0 3,500 University Eval Services (RRI) 0 0 0 3,500 Advanced SMR R&D 1,388 1,388 1,548 1,547 LWR Sustainability 17,683 17,683 15,470 Advanced Reactor Technologies 10,665 10,665 10,665 10,665 10,665 10,665 10,665 10,665 10,605 32,670	Information Sharing, Partnerships and Exercises	0	0	4,000
Advanced Energy Systems 1,603 1,603 0 Cross Cutting Research 641 641 0 Advanced Coal Energy Systems & CCUS 2,244 2,244 2,244 University Led Research & Development 0 0 3,500 University Led Research & Development 0 0 3,500 University Led Research & Development 1 6 1,388 1,388 1,740 Advanced SMR R&D 1,1,883 1,7683 1,7683 1,640 1,600 CWR Sustainability 1,0,665 10,665 10,665 16,000 Reactor Concepts R&D 29,736 29,736 22,730 22,730 Mining, Conversion, and Transportation 450 0 0 0 Materials Recovery and Waste Form Development 17,988 17,988 27,400 Academ Tolerant Fuels 22,103 29,000 21,000 Tris Fuel and Arganization Graphite Qualification 18,000 8,000 2,100 Fuel Cycle Laboratory R&D 1,075 1,075 1,075 1,07	Carbon Capture	110	110	0
Cross Cutting Research 641 641 0 Advanced Coal Energy Systems & CCUS 2,244 2,244 0 University Led Research & Development 0 0 0 17,430 Advanced SMR R&D 1,388 1,388 1,388 1,508 15,600 LUM Sustainability 17,683 17,683 15,678 15,700 Advanced Exector Technologies 10,685 22,473 22,403 24,605 10,256	CCS and Power Systems	110	110	0
Advanced Coal Energy Systems & CCUS 2,244 2,244 0 University Luel Research & Development 0 0 3,500 Advanced SMR R&D 1,388 1,388 1,000 LWR Sustainability 17,683 17,683 15,470 Advanced Reactor Technologies 10,665 10,665 16,065 Reactor Concepts RB&D 29,736 29,736 32,670 Mining, Conversion, and Transportation 450 0 0 Materials Recovery and Waste Form Development 17,883 17,988 27,400 Materials Recovery and Waste Form Development 18,950 29,000 21,100 Tris Fuel and Graphite Qualification 18,950 29,000 18,640 Tike Uyale Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Lued Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 1,883 1,185 0 <	Advanced Energy Systems	1,603	1,603	0
University Fuel Services (RRI) 0 3,500 University Fuel Services (RRI) 0 17,430 Advanced SMR R&D 1,388 1,388 1,300 LVR Sustainability 17,683 17,683 15,470 Advanced Reactor Technologies 10,665 10,665 16,000 Reactor Concepts RD&D 29,736 29,736 32,670 Mining, Conversion, and Transportation 450 0 0 Materials Recovery and Waste Form Development 450 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 22,100 21,100 Livel Cycle Laboratory R&D 8,000 8,000 8,000 18,640 Puel Cycle Laboratory R&D 8,000 8,000 1,055 1,075 Used Nuclear Fuel Disposation R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Puel Cycle Research & Development 1,018 1,183 1,830 0 Crosscutting Technology Development 1,182 <th< td=""><td>Cross Cutting Research</td><td>641</td><td>641</td><td>0</td></th<>	Cross Cutting Research	641	641	0
University Fuel Services (RRI) 0 0 17,436 Advanced SMR R&D 1,388 1,388 1,388 LWR Sustainability 17,683 17,683 15,470 Advanced Reactor Technologies 10,685 10,685 16,005 Reactor Concepts RD&D 29,736 29,736 32,670 Mining, Conversion, and Transportation 480 0 0 Materials Recovery and Waste Form Development 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 22,103 24,070 Tiss Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Integrated Waste Management System 11,896 11,896 11,896 11,896 11,896 11,896 12,800 10 12,800 <	Advanced Coal Energy Systems & CCUS	2,244	2,244	0
Advanced SMR R&D 1,388 1,388 1,288 LWR Sustainability 17,683 17,683 15,470 Advanced Reactor Technologies 10,665 16,000 Reactor Concepts RD&D 29,736 29,736 29,736 Mining, Conversion, and Transportation 450 0 0 Materials Recovery and Waste Form Development 17,988 17,888 27,400 Accident Tolerant Fuels 22,103 22,103 22,103 24,000 Accident Tolerant Fuels 8,000 8,000 21,100 18,640 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 8,000 18,640 18,6	University Led Research & Development	0	0	3,500
LWR Sustainability 17,683 17,683 16,407 Advanced Reactor Technologies 10,665 10,665 16,000 Reactor Concepts RD&D 29,736 32,670 Mining, Conversion, and Transportation 450 0 0 Materials Recovery and Waste Form Development 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 24,070 Triss Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 18,640 Fuel Cycle Laboratory R&D 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Fuel Cycle Research & Development 11,823 11,823 3,300 Joint Modeling and Simulation Program 11,823 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911	University Fuel Services (RRI)	0	0	17,430
Advanced Reactor Technologies 10,665 10,665 16,000 Reactor Concepts RD&D 29,736 29,736 32,676 Mining, Conversion, and Transportation 450 0 0 Materials Recovery and Waste Form Development 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 24,070 Triso Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 30,000 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,893 18,203 Joint Modeling and Simulation Program 11,823 1,813 3,00 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 71,015	Advanced SMR R&D	1,388	1,388	1,200
Reactor Concepts RD&D 29,736 29,736 32,670 Mining, Conversion, and Transportation 450 0 0 Materials Recovery and Waste Form Development 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 22,103 Triso Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,893 18,203 Joint Modeling and Simulation Program 11,823 11,823 3,3408 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 2	LWR Sustainability	17,683	17,683	15,470
Mining, Conversion, and Transportation 450 0 Materials Recovery and Waste Form Development 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 24,070 Triso Fuel and Graphite Qualification 18,950 29,000 21,000 Fuel Cycle Laboratory R&D 8,000 8,000 7,281 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,893 18,203 Joint Modeling and Simulation Program 11,823 11,823 3,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 1,853 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 72,227	Advanced Reactor Technologies	10,665	10,665	16,000
Materials Recovery and Waste Form Development 17,988 17,988 27,400 Accident Tolerant Fuels 22,103 22,103 24,070 Triso Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,666 102,566 Crosscutting Technology Development of the Cycle Research & Development of 11,896 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,893 11,893 11,893 18,203 Joint Modeling and Simulation Program 1,853 1,853 0 0 Nuclear Science User Facilities 25,445 25,445 25,445 3,406 0 Transformational Challenge Reactor 1,853 1,853 1,853 0 0 Nuclear Energy Enabling Technologies	Reactor Concepts RD&D	29,736	29,736	32,670
Accident Tolerant Fuels 22,103 22,103 24,070 Triso Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 7,288 0 Resk Reduction for Future Demonstration 0	Mining, Conversion, and Transportation	450	0	0
Triso Fuel and Graphite Qualification 18,950 29,000 21,100 Fuel Cycle Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 10,00 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 25,445 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 77,288 70 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264<	Materials Recovery and Waste Form Development	17,988	17,988	27,400
Fuel Cycle Laboratory R&D 8,000 8,000 18,640 HALEU Availability 0 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 34,000 Nuclear Energy Enabling Technologies 11,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 77 0 Risk Reduction for Future Demonstration 3,176 3,176 2,200 Regulatory Development 3,176 3,176 3,176 3,176 3,176 3,136 3,176 3	Accident Tolerant Fuels	22,103	22,103	24,070
HALEU Availability 0 7,281 Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 2,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 <td>Triso Fuel and Graphite Qualification</td> <td>18,950</td> <td>29,000</td> <td>21,100</td>	Triso Fuel and Graphite Qualification	18,950	29,000	21,100
Used Nuclear Fuel Disposition R&D 1,075 1,075 1,075 Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 3,176 3,176 2,200 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 Other Project Costs 42,435 42,435 44,4	Fuel Cycle Laboratory R&D	8,000	8,000	18,640
Integrated Waste Management System 1,000 1,000 3,000 Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 77,288 0 Risk Reduction for Future Demonstration 77,135 77,135 0 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor<	HALEU Availability	0	0	7,281
Fuel Cycle Research & Development 69,566 79,166 102,566 Crosscutting Technology Development 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0	Used Nuclear Fuel Disposition R&D	1,075	1,075	1,075
Crosscutting Technology Development 11,896 11,896 18,203 Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,43	Integrated Waste Management System	1,000	1,000	3,000
Joint Modeling and Simulation Program 11,823 11,823 8,300 Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 <	Fuel Cycle Research & Development	69,566	79,166	102,566
Nuclear Science User Facilities 25,445 25,445 33,408 Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Crosscutting Technology Development	11,896	11,896	18,203
Transformational Challenge Reactor 1,853 1,853 0 Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Joint Modeling and Simulation Program	11,823	11,823	8,300
Nuclear Energy Enabling Technologies 51,017 51,017 59,911 National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 40 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Nuclear Science User Facilities	25,445	25,445	33,408
National Reactor Innovation Center 28,279 28,279 68,780 Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Transformational Challenge Reactor	1,853	1,853	0
Demonstration 1 (X-Energy) 77,288 77,288 0 Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Nuclear Energy Enabling Technologies	51,017	51,017	59,911
Demonstration 2 (Natrium) 77,135 77,135 0 Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	National Reactor Innovation Center	28,279	28,279	68,780
Risk Reduction for Future Demonstration 0 0 20,000 Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Demonstration 1 (X-Energy)	77,288	77,288	0
Regulatory Development 3,176 3,176 2,200 Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Demonstration 2 (Natrium)	77,135	77,135	0
Advanced Reactors Safeguards 264 264 400 Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Risk Reduction for Future Demonstration	0	0	20,000
Advanced Reactors Demonstration Program 186,142 186,142 91,380 Other Project Costs 42,435 42,435 44,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Regulatory Development	3,176	3,176	2,200
Other Project Costs 42,435 42,435 42,435 21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Advanced Reactors Safeguards	264	264	400
21-E-200, Versatile Test Reactor 2,000 2,000 0 Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Advanced Reactors Demonstration Program	186,142	186,142	91,380
Versatile Advanced Test Reactor R&D 44,435 44,435 44,435 INL Facilities Operations and Maintenance 273,712 275,325 322,855	Other Project Costs	42,435	42,435	44,435
INL Facilities Operations and Maintenance 273,712 275,325 322,855	21-E-200, Versatile Test Reactor	2,000	2,000	0
·	Versatile Advanced Test Reactor R&D	44,435	44,435	44,435
16-E-200 Sample Preparation Laboratory 26,000 7,300	INL Facilities Operations and Maintenance	273,712	275,325	322,855
	16-E-200 Sample Preparation Laboratory	26,000	26,000	7,300

Laboratory Table
Idaho National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Research Reactor Infrastructure	11,430	11,430	0
Infrastructure	311,142	312,755	330,155
Idaho Sitewide Safeguards & Security (050)	145,850	148,175	155,075
Program Direction - Nuclear Energy	3,916	3,916	4,500
Environment, Health, Safety & Security	150	150	150
Environment, Health, Safety, and Security	150	150	150
Office of Technology Transitions (DA)	155	155	0
Idaho Cleanup and Waste Disposition	430,000	430,000	350,658
22-D-403 Idaho Spent Nuclear Fuel Staging Facility	0	0	8,000
22-D-404 Additional ICDF Landfill Disposal Cell and Evaporation Ponds Project	0	0	8,000
23-D-402 - Calcine Construction	0	0	10,000
Construction - Idaho	0	0	26,000
Idaho Community and Regulatory Support	3,500	3,500	2,705
Idaho National Laboratory (INL)	433,500	433,500	379,363
Small Sites - NDEC	11,000	11,000	11,220
Total Idaho National Laboratory	1,818,265	1,820,912	1,768,291

DEPARTMENT OF ENERGY
Laboratory Table
Idaho Operations Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Idaho Operations Office			
Research - Basic Energy Sciences	369	369	369
Basic Energy Sciences	369	369	369
Transmission Reliability and Resilience	5	0	0
University Led Research & Development	0	0	500
University Scholarships and Fellowships	0	0	5,991
University Fuel Services (RRI)	0	0	50
Integrated University Program	5,000	4,991	0
Advanced SMR R&D	111,455	111,455	37,600
LWR Sustainability	12,306	12,306	9,965
Advanced Reactor Technologies	6,738	6,738	400
Reactor Concepts RD&D	130,499	130,499	47,965
Materials Recovery and Waste Form Development	3,358	3,358	5,140
Accident Tolerant Fuels	56,265	56,265	61,323
Triso Fuel and Graphite Qualification	7,912	2,550	1,900
Fuel Cycle Laboratory R&D	1,700	1,700	3,961
HALEU Availability	0	0	44,810
Used Nuclear Fuel Disposition R&D	13,500	13,500	3,000
Integrated Waste Management System	2,000	2,000	12,000
Fuel Cycle Research & Development	84,735	79,373	132,134
Crosscutting Technology Development	3,656	3,656	3,000
Joint Modeling and Simulation Program	5,542	5,542	4,300
Nuclear Science User Facilities	760	760	800
Transformational Challenge Reactor	3,069	3,069	0
Nuclear Energy Enabling Technologies	13,027	13,027	8,100
National Reactor Innovation Center	220	220	220
Risk Reduction for Future Demonstration	0	0	70,000
Regulatory Development	2,826	2,826	200
Advanced Reactors Safeguards	978	978	0
Advanced Reactors Demonstration Program	4,024	4,024	70,420
Other Project Costs	500	500	500
Versatile Advanced Test Reactor R&D	500	500	500
INL Facilities Operations and Maintenance	5,476	3,678	3,134
Research Reactor Infrastructure	50	50	0
Infrastructure	5,526	3,728	3,134
Idaho Sitewide Safeguards & Security (050)	3,900	1,400	1,400
International Nuclear Energy Cooperation	0	0	750
Program Direction - Nuclear Energy	27,909	27,909	33,270
Interim Storage	1,000	1,000	0
Strategic Partnership Projects	1,000	1,000	2,000
Strategic Partnership Projects and Revenues	1,000	1,000	2,000
Environment, Health, Safety & Security	400	400	400
Environment, Health, Safety, and Security	400	400	400
Office of Technology Transitions (DA)	1,150	1,150	3,434
Program Direction - Defense Environmental Cleanup	9,804	9,804	10,284
Program Direction - OCED	0	0	250
Total Idaho Operations Office	288,848	279,174	320,951

Laboratory Table
Kansas City National Security Complex (KCNSC) FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Kansas City National Security Complex (KCNSC)			
B61-12 LEP	275,000	241,607	250,821
W88 ALT 370	109,310	76,846	44,500
W80-4 LEP	166,147	163,131	207,889
W87-1 Modification Program	40,000	43,124	92,294
W93 Program	2,000	2,000	10,000
Stockpile Major Modernization	592,457	526,708	605,504
Stockpile Sustainment	130,650	132,703	166,380
Weapons Dismantlement and Disposition	100	400	350
Production Operations	85,848	91,013	113,419
Nuclear Enterprise Assurance	0	0	8,173
Stockpile Management	809,055	750,824	893,826
Enterprise Plutonium Support	8,968	7,993	12,798
Plutonium Modernization	8,968	7,993	12,798
Primary Capability Modernization	8,968	7,993	12,798
Uranium Modernization	0	0	560
Secondary Capability Modernization	0	0	560
Non-Nuclear Capability Modernization	40,150	46,171	44,311
Total, Non-Nuclear Capability Modernization	40,150	46,171	44,311
Capability Based Investments	14,050	5,697	8,000
Production Modernization	63,168	59,861	65,669
Archiving and Support	100	220	327
Delivery Environments	424	0	0
Aging and Lifetimes	2,137	2,784	2,500
Stockpile Responsiveness	5,393	5,498	5,246
Advanced Certification and Qualification	3,030	2,900	2,756
Engineering and Integrated Assessments	11,084	11,402	10,829
Surety Technologies	3,217	4,000	4,400
Weapon Technology Development	4,210	4,097	4,067
Advanced Manufacturing Development	18,959	19,311	19,379
Weapons Technology and Manufacturing Maturation	26,386	27,408	27,846
Advanced Simulation and Computing	3,500	3,500	3,500
Advanced Simulation & Computing	3,500	3,500	3,500
Stockpile Research, Technology, and Engineering	40,970	42,310	42,175
Operations of Facilities	108,654	110,000	95,000
Safety and Environmental Operations	7,257	9,014	3,379
Maintenance and Repair of Facilities	32,101	35,000	22,000
Infrastructure and Safety	36,414	48,815	64,595
Recapitalization	36,414	48,815	64,595
Operating	184,426	202,829	184,974
Infrastructure and Operations	184,426	202,829	184,974
STA Operations and Equipment	28,329	37,597	49,521
Secure Transportation Asset	28,329	37,597	49,521
Operations and Maintenance - DNS	17,560	17,560	22,303
Defense Nuclear Security (DNS)	17,560	17,560	22,303
Information Technology and Cyber Security	27,014	25,165	18,130
Material Disposition	3,777	3,500	4,030
Material Management and Minimization	3,777	3,500	4,030
International Nuclear Security	60	0	62

DEPARTMENT OF ENERGY
Laboratory Table
Kansas City National Security Complex (KCNSC) FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Global Material Security	60	0	62
Proliferation Detection R&D	1,050	1,000	1,181
Defense Nuclear Nonproliferation R&D	1,050	1,000	1,181
Counterterrorism and Counterproliferation	34,093	30,769	44,443
Nuclear Counterterrorism & Incident Response	34,093	30,769	44,443
Program Direction - National Nuclear Security Administration	110	110	110
Environment, Health, Safety & Security	10	10	10
Environment, Health, Safety, and Security	10	10	10
Total Kansas City National Security Complex (KCNSC)	1,209,622	1,171,535	1,326,434

Laboratory Table
Kansas City Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Kansas City Site Office			
Information Technology and Cyber Security	148	156	425
Nonproliferation & Arms Control	2,960	2,960	3,753
Nonproliferation Stewardship Program	0	200	0
Defense Nuclear Nonproliferation R&D	0	200	0
Program Direction - National Nuclear Security Administration	7,340	8,030	9,664
Total Kansas City Site Office	10,448	11,346	13,842

Laboratory Table
Knolls Atomic Power Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Knolls Atomic Power Laboratory			
Naval Reactors Development	210,505	210,505	260,688
Columbia-Class Reactor Systems Development	49,672	49,672	43,656
S8G Prototype Refueling	131,374	131,374	20,000
Naval Reactors Operations and Infrastructure	254,125	254,125	326,316
21-D-530 KL Steam and Condensate Upgrades	4,000	4,000	0
14-D-901 Spent Fuel Handling Recapitalization Project, NRF	5,051	5,051	3,290
Construction - Naval Reactors	9,051	9,051	3,290
Total Knolls Atomic Power Laboratory	654,727	654,727	653,950

DEPARTMENT OF ENERGY
Laboratory Table
Lawrence Berkeley National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Lawrence Berkeley National Laboratory			
Surety Technologies	250	0	0
Weapons Technology and Manufacturing Maturation	250	0	0
Stockpile Research, Technology, and Engineering	250	0	0
Information Technology and Cyber Security	643	231	572
Nonproliferation & Arms Control	784	784	995
Proliferation Detection R&D	8,055	13,600	9,057
Forensics R&D	50	120	50
Defense Nuclear Nonproliferation R&D	8,105	13,720	9,107
Emergency Operations	637	450	450
Counterterrorism and Counterproliferation	456	0	834
Nuclear Counterterrorism & Incident Response	1,093	450	1,284
Research - Advanced Scientific Computing Research	238,816	220,112	218,226
Advanced Scientific Computing Research	238,816	220,112	218,226
Research - Basic Energy Sciences	147,285	157,516	149,283
18-SC-12, Advanced Light Source Upgrade (ALS-U), LBNL	62,000	75,100	135,000
Construction - Basic Energy Sciences	62,000	75,100	135,000
Basic Energy Sciences	209,285	232,616	284,283
Research - Biological & Environmental Research	166,693	171,224	176,405
Biological and Environmental Research	166,693	171,224	176,405
Research - Fusion Energy Sciences	1,200	1,200	0
Fusion Energy Sciences	1,200	1,200	0
Research - High Energy Physics	71,772	63,450	67,945
High Energy Physics	71,772	63,450	67,945
Operations and Maintenance - Nuclear Physics	23,069	25,591	34,817
Nuclear Physics	23,069	25,591	34,817
Research - Accelerator R&D and Production	0	1,282	430
Accelerator R&D and Production	0	1,282	430
Facilities and Infrastructure (SLI)	0	0	5,500
20-SC-72, Seismic and Safety Modernization, LBNL	5,000	27,500	27,500
20-SC-78, Linear Assets Modernization Project, LBNL (20-SC-80)	500	500	23,425
19-SC-74, Biological & Environmental Program Integration Center (BioEPIC), LBNL	20,000	35,000	45,000
Construction - Science Laboratories Infrastructure	25,500	63,000	95,925
Science Laboratories Infrastructure	25,500	63,000	101,425
Safeguards and Security - SC	7,675	7,675	13,450
Vehicle Technologies	16,970	20,480	19,900
Bioenergy Technologies	11,000	11,000	8,500
Hydrogen and Fuel Cells Technologies	6,844	4,600	4,800
Sustainable Transportation	34,814	36,080	33,200
Solar Energy Technologies	134,623	134,623	303,450
Wind Energy Technologies	1,515	2,918	4,340
Geothermal Technologies	1,950	3,550	0
Renewable Power	138,088	141,091	307,790
Advanced Manufacturing	7,656	24,800	32,000
Building Technologies	37,041	37,788	36,859
Federal Energy Management Program (EERE)	4,000	2,000	0
Weatherization Assistance Program (EERE)	24,800	0	0
Training and Technical Assistance (EERE)	75	200	0
State Energy Program Grants (EERE)	475	800	0

DEPARTMENT OF ENERGY
Laboratory Table
Lawrence Berkeley National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Weatherization and Intergovernmental Programs	25,350	1,000	0
Energy Efficiency	74,047	65,588	68,859
Strategic Programs	1,300	0	1,000
Corporate Support	1,300	0	1,000
Transmission Reliability and Resilience	1,657	0	3,050
Resilient Distribution Systems	1,263	0	1,300
Transmission Permitting and Technical Assistance	250	0	0
Infrastructure Security and Energy Restoration	900	900	0
Response and Restoration	0	0	500
Information Sharing, Partnerships and Exercises	0	0	500
Carbon Capture	465	465	0
Carbon Storage	2,115	2,115	0
CCS and Power Systems	2,580	2,580	0
Cross Cutting Research	1,734	1,734	0
Advanced Coal Energy Systems & CCUS	1,734	1,734	0
Advanced Oil and Gas Prod Tech (Unconv FE)	1,672	1,672	0
Materials Recovery and Waste Form Development	33	33	51
Used Nuclear Fuel Disposition R&D	3,500	3,500	3,500
Fuel Cycle Research & Development	3,533	3,533	3,551
Crosscutting Technology Development	74	74	75
Joint Modeling and Simulation Program	200	200	150
Nuclear Energy Enabling Technologies	274	274	225
Strategic Partnership Projects	3,308	3,308	2,250
Strategic Partnership Projects and Revenues	3,308	3,308	2,250
Environment, Health, Safety & Security	0	0	50
Environment, Health, Safety, and Security	0	0	50
Office of Technology Transitions (DA)	105	105	0
Small Sites - NDEC	30,100	30,100	0
Grid Planning & Development	0	0	2,000
Grid Technical Assistance	0	0	3,000
Wholesale Electricity Market TA & Grants	0	0	4,300
Interregional & Offshore Transmission Planning	0	0	2,500
Total Lawrence Berkeley National Laboratory	1,050,510	1,088,300	1,343,014

DEPARTMENT OF ENERGY
Laboratory Table
Lawrence Livermore National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Lawrence Livermore National Laboratory			
B61-12 LEP	695	0	0
W80-4 LEP	173,304	198,059	178,050
W87-1 Modification Program	200,000	215,280	213,059
W93 Program	4,000	4,000	3,000
Stockpile Major Modernization	377,999	417,339	394,109
Stockpile Sustainment	83,839	89,193	105,737
Weapons Dismantlement and Disposition	497	2,800	2,000
Production Operations	5,819	5,476	5,748
Nuclear Enterprise Assurance	0	0	5,634
Stockpile Management	468,154	514,808	513,228
Enterprise Plutonium Support	51,361	51,361	56,260
Plutonium Modernization	51,361	51,361	56,260
High Explosives & Energetics	14,000	13,000	17,500
HE & Energistics	14,000	13,000	17,500
Primary Capability Modernization	65,361	64,361	73,760
Uranium Modernization	1,300	1,300	2,500
Depleted Uranium Modernization	3,000	6,209	12,000
Lithium Modernization	0	0	2,500
Secondary Capability Modernization	4,300	7,509	17,000
Tritium Sustainment and Modernization	38	40	40
Tritium and Domestic Uranium Enrichment	38	40	40
Non-Nuclear Capability Modernization	2,050	435	370
Total, Non-Nuclear Capability Modernization	2,050	435	370
Capability Based Investments	33,030	27,720	30,000
Production Modernization	104,779	100,065	121,170
Primary Assessment Technologies	46,800	76,988	50,661
Dynamic Materials Properties	39,109	39,109	42,600
Advanced Diagnostics	11,220	10,320	9,240
Secondary Assessment Technologies	37,502	37,102	34,650
Enhanced Capabilities for Subcritical Experiments	44,958	67,734	106,110
Hydrodynamic and Subcritical Experiment Execution Support	28,750	28,750	32,100
Assessment Science	208,339	260,003	275,361
Archiving and Support	14,550	13,885	13,456
Delivery Environments	12,650	11,000	10,972
Weapons Survivability	17,323	13,500	13,987
Studies and Assessments	0	0	2,093
Aging and Lifetimes	16,393	14,000	14,300
Stockpile Responsiveness	19,040	17,733	16,921
Advanced Certification and Qualification	17,000	19,000	18,055
Engineering and Integrated Assessments	96,956	89,118	89,784
Inertial Confinement Fusion	349,000	349,000	335,807
Surety Technologies	9,750	9,058	8,500
Weapon Technology Development	11,150	6,250	6,205
Advanced Manufacturing Development	19,149	16,491	20,179
Weapons Technology and Manufacturing Maturation	40,049	31,799	34,884
Advanced Simulation and Computing	178,024	178,024	194,959
18-D-620, Exascale Computing Facility Modernization Project, LLNL	29,200	29,200	0
Advanced Simulation & Computing	207,224	207,224	194,959

DEPARTMENT OF ENERGY
Laboratory Table
Lawrence Livermore National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Stockpile Research, Technology, and Engineering	901,568	937,144	930,795
Operations of Facilities	82,087	80,000	82,000
Safety and Environmental Operations	36,777	32,744	37,871
Maintenance and Repair of Facilities	37,483	35,000	37,000
Infrastructure and Safety	113,584	82,734	93,410
Recapitalization	113,584	82,734	93,410
Operating	269,931	230,478	250,281
22-D-514 Digital Infrastructure Capability Expansion, LLNL	0	0	67,300
15-D-612, Emergency Operations Center, LLNL	27,000	27,000	0
Mission Enabling Construction	27,000	27,000	67,300
I&O - Construction	27,000	27,000	67,300
Infrastructure and Operations	296,931	257,478	317,581
Operations and Maintenance - DNS	69,430	69,430	80,238
Defense Nuclear Security (DNS)	69,430	69,430	80,238
Information Technology and Cyber Security	30,792	29,734	44,264
Conversion	500	0	0
Nuclear Material Removal	0	200	0
Material Disposition	0	100	100
Material Management and Minimization	500	300	100
International Nuclear Security	4,515	9,487	4,642
Radiological Security	5,059	6,041	4,504
Nuclear Smuggling Detection and Deterrence	4,117	2,000	4,190
Global Material Security	13,691	17,528	13,336
Nonproliferation & Arms Control	24,450	24,450	31,001
Proliferation Detection R&D	29,497	28,187	33,163
Nuclear Detonation Detection	22,742	17,042	23,397
Forensics R&D	11,643	10,119	11,643
Nonproliferation Stewardship Program	6,950	12,500	13,049
Defense Nuclear Nonproliferation R&D	70,832	67,848	81,252
NNSA Bioassurance Program	0	0	5,000
Counterterrorism and Counterproliferation	75,787	69,232	81,120
Nuclear Counterterrorism & Incident Response	75,787	69,232	81,120
Program Direction - National Nuclear Security Administration	762	1,580	1,580
Research - Advanced Scientific Computing Research	5,254	3,490	6,722
Advanced Scientific Computing Research	5,254	3,490	6,722
Research - Basic Energy Sciences	2,091	2,091	2,091
Basic Energy Sciences	2,091	2,091	2,091
Research - Biological & Environmental Research	28,095	28,095	31,082
Biological and Environmental Research	28,095	28,095	31,082
Research - Fusion Energy Sciences	9,765	9,201	6,482
Fusion Energy Sciences	9,765	9,201	6,482
Research - High Energy Physics	3,665	2,271	2,275
High Energy Physics	3,665	2,271	2,275
Operations and Maintenance - Nuclear Physics	1,607	1,807	1,784
Nuclear Physics	1,607	1,807	1,784
Research - Accelerator R&D and Production	0	258	93
Accelerator R&D and Production	0	258	93
Vehicle Technologies	4,416	2,325	2,790
Bioenergy Technologies	1,650	1,650	1,250
Hydrogen and Fuel Cells Technologies	1,091	2,000	2,000

DEPARTMENT OF ENERGY
Laboratory Table
Lawrence Livermore National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Sustainable Transportation	7,157	5,975	6,040
Solar Energy Technologies	31,848	31,848	43,970
Wind Energy Technologies	1,040	1,746	2,979
Geothermal Technologies	350	0	0
Renewable Power	33,238	33,594	46,949
Advanced Manufacturing	7,716	5,000	10,000
Building Technologies	128	178	178
Energy Efficiency	7,844	5,178	10,178
Strategic Programs	0	300	300
Corporate Support	0	300	300
Transmission Reliability and Resilience	6,319	0	2,650
Energy Delivery Grid Operations Technology	0	0	8,000
Resilient Distribution Systems	996	0	900
Cybersecurity for Energy Delivery Systems	4,000	4,000	0
Infrastructure Security and Energy Restoration	3,500	3,500	0
Risk Management Technology and Tools	0	0	5,000
Response and Restoration	0	0	1,800
Information Sharing, Partnerships and Exercises	0	0	2,000
Carbon Capture	720	720	0
Carbon Storage	2,000	2,000	0
CCS and Power Systems	2,720	2,720	0
Cross Cutting Research	306	306	0
Advanced Coal Energy Systems & CCUS	306	306	0
Advanced Oil and Gas Prod Tech (Unconv FE)	1,000	1,000	0
Natural Gas Technologies Research	500	500	0
LWR Sustainability	307	307	0
Reactor Concepts RD&D	307	307	0
Accident Tolerant Fuels	345	345	376
Used Nuclear Fuel Disposition R&D	550	550	550
Fuel Cycle Research & Development	895	895	926
Crosscutting Technology Development	208	208	200
Nuclear Energy Enabling Technologies	208	208	200
Environment, Health, Safety & Security	3,050	3,050	3,050
Environment, Health, Safety, and Security	3,050	3,050	3,050
Office of Technology Transitions (DA)	55	55	0
Lawrence Livermore National Laboratory (LLNL)	1,764	1,764	1,842
LLNL Excess Facilities D&D	35,000	35,000	12,004
NNSA Sites and Nevada Off-Sites	36,764	36,764	13,846
Total Lawrence Livermore National Laboratory	2,217,012	2,235,162	2,373,033

Laboratory Table
Lexington Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Lexington Office			
Environment, Health, Safety & Security	200	200	200
Environment, Health, Safety, and Security	200	200	200
Total Lexington Office	200	200	200

Laboratory Table
Livermore Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Livermore Site Office			
Infrastructure and Safety	0	0	1,000
Recapitalization	0	0	1,000
Operating	0	0	1,000
Infrastructure and Operations	0	0	1,000
Program Direction - National Nuclear Security Administration	17,112	17,516	18,241
Advanced Reactor Technologies	50	50	25
Reactor Concepts RD&D	50	50	25
Total Livermore Site Office	17,162	17,566	19,266

DEPARTMENT OF ENERGY
Laboratory Table
Los Alamos National Laboratory FY 2023
(Dollars in Thousands)

Name National Laboratory Repair of March 1985 Repair of March 1985 Repair of March 1985 Act (2016)		FY 2021	FY 2022	FY 2023
Be1-12 LEP				
WB ALT 377 31,319 3,789 10,457 WB - LEP 678 10,000 17,227 18,232 WB - Frogram 15,000 18,000 79,000 Studsplat Major Medimization 191,712 157,010 78,000 Studsplat Major Medimization 197,712 150,000 2,000 Production Operations 45,603 46,228 48,457 Nuclear Enterprice Assurance 45,603 46,228 48,457 Nuclear Enterprice Assurance 416,603 355,606 42,200 58,228 Succipie Maragement 416,603 355,606 42,200 58,224 Los Alamon Plutonium Operations 456,603 24,000 58,224 Los Alamon Plutonium Operations 22,000 22,000 22,000 30,002 Los Alamon Plutonium Ple Podiction Poject, LANI. 22,000 22,000 30,002 Los Alamon Plutonium Ple Podiction Poject, LANI. 22,000 22,000 30,002 Los Alamon Plutonium Ple Podiction Poject, LANI. 31,000 42,000 42,000 Los Alamo	Los Alamos National Laboratory			
WB9-1 Modication Program 67,893 66,350 27,572 WB7-1 Modication Program 11,000 16,000 78,000 Stocciole Mater Modernization 119,712 157,031 173,732 Stocciole Mater Modernization 170,438 150,331 233,732 Wespons Demantement and Disposition 45,83 46,200 2,200 Prosuction Operatoria 45,83 46,220 2,200 Prosuction Operatoria 45,83 46,220 2,200 Stockjeli Management 41,630 305,505 48,207 Lus Alarmac Platuriania Operatoria 29,009 224,000 56,824 15 - 0-302, TASS Reviewstiment Project, LANI. 22,000 224,000 58,624 15 - 0-302, TASS Reviewstiment Project, LANI. 30,819 10 24,727 12,002,00 0-4 - 0 128, Chromitry and Metallurgy Research Replacement Project, LANI. 16,727 10,202,01 15,550,60 Platon Limit Modernization 1,303,41 1,021,25 15,550,76 Platon Limit Modernization 1,000 2,00 15,500,70 Prise	•	59,500	45,556	37,661
WR7-1 Modification Program 15,000 17,272 76,000 WRS Program 110,000 16,000 76,000 Stockpie Migram Moderization 110,712 157,312 123,328 Stockpie Magramment 119,712 2,000 2,000 Production Operations 45,883 46,228 46,457 Nuclear Enterprise Assurance 45,883 46,228 44,457 Nuclear Enterprise Assurance 890,999 601,576 750,527 Los Alamos Plutonium Production Project, LNI. 22,800 22,000 780,273 Los Alamos Plutonium Production Project, LNI. 29,500 22,020 30,000 77,272 12,012	W88 ALT 370		9,798	10,457
WBB Program 19,000 19,000 19,000 Stockplat Major Moderization 191,712 157,001 157,121 Weapons Dammerhament and Disposition 497 2,000 20,000 Preduction Operations 488 36,825 48,675 Nuclear Enterprise Assurance 40,83 36,985 42,073 Loc Allamac Plutenium Operations 580,998 601,576 750,377 2 1-0-12, Plutenium PP Peduction Project, LANL 220,000 224,000 600,578 500,802 1 5-0-302, Practicular Seal Production Project, LANL 20,000 224,000 200,000 600,234 1 5-0-302, Practicular Device Comment Project, LANL 30,167 0 24,000 200,000 200,000 24,000 200,000 </td <td>W80-4 LEP</td> <td></td> <td>66,350</td> <td>27,572</td>	W80-4 LEP		66,350	27,572
WBB Program 19,000 19,000 19,000 Stockplat Major Moderization 191,712 157,001 157,121 Weapons Dammerhament and Disposition 497 2,000 20,000 Preduction Operations 488 36,825 48,675 Nuclear Enterprise Assurance 40,83 36,985 42,073 Loc Allamac Plutenium Operations 580,998 601,576 750,377 2 1-0-12, Plutenium PP Peduction Project, LANL 220,000 224,000 600,578 500,802 1 5-0-302, Practicular Seal Production Project, LANL 20,000 224,000 200,000 600,234 1 5-0-302, Practicular Device Comment Project, LANL 30,167 0 24,000 200,000 200,000 24,000 200,000 </td <td>W87-1 Modification Program</td> <td></td> <td></td> <td></td>	W87-1 Modification Program			
Biotocylin Najor Modernization 1917/12 197,031 173,122 Stockplis Nationment 176,486 69,536 20,200 Veragency Damandement and Disposition 45,883 46,228 2,000 Production Operations 45,883 46,228 48,627 Stockplin Management 414,890 305,595 482,073 Lock Alexinos Putronium Cerestions 560,599 601,576 750,871 Lock Alexinos Putronium Pel Production Project, LANI. 28,500 22,200 300,002 1, 19-0-126, Chemistry and Metallury Resourch Replacement Project, LANI. 316,727 102,102 1167,127 <td>-</td> <td></td> <td></td> <td></td>	-			
Stockpile Sustainment 176,498 189,599 280,3288 280,3288 280,4000 2000	-			•
Wespons Dimmarlement and Disposition 449 2,800 2,000 Production Operations 45,833 46,228 44,675 Stockpiller Assurance 0 0 0 5,236 Stockpiller Assurance 60,90 305,500 420,207 Loc Alarnos Planoium Operations 500,90 10,157 70,200 500,20	• •	•		
Production Operations 45,883 46,288 48,457 Nuclear Enterprise Assurance 0 0 5,250 Schopligh Management 414,590 395,595 432,073 Los Alamos Plutonium Production Project, LANI. 226,000 224,000 598,234 21-0-12, Publication Production Project, LANI. 226,000 224,000 30,002 07-0-220-04, Transuranci Liquid Wasie Facility, LANI. 36,187 0 22,175 04-0-12-05, Chemistry and Michality Research Replacement Project, LANI. 16,7127 167,127 <t< td=""><td>·</td><td></td><td>,</td><td></td></t<>	·		,	
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Stockpile Management 414,500 385,505 482,073 La Alamina Plutonium Operations 550,599 611,576 75,017 21-D-512 Pubricum Pit Production Project, LANL 225,000 22,500 30,000 07-D-22-D-04, Transuranic Liquid Wasser Facility, LANL 36,817 0 24,759 04-D-12-D-04, Chemistry and Medalingy Research Replacement Project, LANL 167,127 167,127 162,012 Los Alamos Plutonium Modernization 1,038,413 1,021,933 1,558,787 Plutonium Modernization 1,038,413 1,021,933 1,558,787 Plutonium Modernization 1,038,413 1,021,933 1,558,787 He & Fenergates 1,030 0 0 1,558,787 He & Senergates Matorials Chracterization Fucility, LANL 0 0 0 3,500 Primary Capability Modernization 3,540 3,400 3,400 3,400 3,100 Depleted Variatium Modernization 3,600 3,400 3,400 3,400 3,400 3,400 3,400 3,400 3,400 3,400 3,400 3,400				
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21-D-512, Pittonium Pit Production Project, LANL 226,000 224,000 30,002 15-D-302, TA-65 Renvestments Project, Phase 3, LANL 29,500 30,002 30,002 07-D-20-OH, Transurance Liquid Waste Facility, LANL 36,187 0 24,759 04-D-125, Chemistry and Metallurgy Research Replacement Project, LANL 167,127 167,127 162,012 Los Alamos Pittonium Modernization 10,394,413 1,021,983 1,555,678 Pittonium Modernization 10,800 12,000 15,500 23-D-516, Energetic Materials Characterization Facility, LANL 0 0 0 34,500 Primary Capability Modernization 3,450 3,450 3,450 3,450 3,450 Uranium Modernization 3,514 9,142 4,800 1,000				
15-D-302, TA-55 Reinvestments Project, Phase 3, LANL 29,509 30,002 07-D-22-OH, Transurain Liquid Wase Facility, LANL 96,187 0 24,759 04-D-125, Chemistry and Metallury Research Replacement Project, LANL 167,127 167,127 162,012 Los Alamos Plutonium Modernization 1,039,413 1,021,953 1,555,878 Plutonium Modernization 10,800 12,000 15,500 23-D-516, Energate Materials Characterization Facility, LANL 0 0 0 34,500 Pirmany Capability Modernization 3,450 3,500 34,500 9,100 Pirmany Capability Modernization 3,450 3,450 9,100 Deplaced Unamim Modernization 3,450 3,450 9,100 Lithium Modernization 6,764 1,252 11,500 Secondary Capability Modernization 6,764 1,252 11,500 Tritium Suariament and Modernization 6,764 1,252 11,500 Tritium and Domastic Uranium Enrichment 38 2,040 2,100 Tritium and Domastic Uranium Enrichment 1,00 80 874	*			
07-D-220-Q4, Transuranic Liquid Waste Facility, LANL 36,187 0 24,759 04-D-125, Chemistry and Metallurgy Research Replacement Project, LANL 167,127 162,0125 152,6127 Los Alamas Dutinoium Modernization 1,039,413 1,021,953 1,555,878 Plutonium Modernization 1,039,413 1,021,953 1,555,878 Plilo Explosives & Energietic Repetition 10,000 0 0 0 15,000 23-D-516, Energietic Materials Characterization Facility, LANL 0 0 0 34,500 Primary Capability Modernization 1,050,213 1,039,353 1,590,378 Uranium Modernization 3,346 3,450 3,400 Depleted Uranium Modernization 3,341 9,142 8,400 Lithium Modernization 33 2,040 2,100 Tritium Sutainment and Modernization 38 2,040 2,100 Tritium Sutainment and Modernization 38 2,040 2,100 Tritium and Domestic Uranium Enrichment 38 2,040 2,100 Tritium Sutainment and Modernization 2,50				
04-0-125, Chemistry and Metaliurgy Research Replacement Project, LANL 167,127 167,127 162,012 Los Alamos Plutonium Modernization 1,039,413 1,021,953 1,558,878 Plutonium Modernization 10,399,413 1,021,953 1,558,878 High Explosives & Energetics 10,800 12,000 3,550,000 23-0-516, Energetic Materials Characterization Facility, LANL 0 0 19,000 Primary Capability Modernization 1,050,213 1,033,953 1,559,378 Ura num Modernization 3,450 3,450 9,100 Depleted Uranium Modernization 0 0 1,000 Secondary Capability Modernization 0 0 1,000 Secondary Capability Modernization 3,34 2,040 2,100 Tritium sustainment and Modernization 38 2,040 2,100 Non-Nuclear Capability Modernization 0 80 874 Total, Non-Nuclear Capability Modernization 17,111 19,479 2,100 Planning for Programmatic Construction (Pre-CD-1) 2,500 0 0 P			-,	,
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High Explosives & Energetics 10,800 12,000 15,500 23D-516, Energetic Materials Characterization Facility, LANL 10 0 19,000 HE & Energistics 10,800 12,000 34,500 Primary Capability Modernization 1,050,213 1,033,953 1,509,378 Uranium Modernization 3,450 3,450 9,000 Elbitum Modernization 6,764 12,592 18,500 Lithium Modernization 38 2,040 2,100 Secondary Capability Modernization 38 2,040 2,100 Tritium Sustainment and Modernization 38 2,040 2,100 Non-Nuclear Capability Modernization 38 2,040 2,100 Non-Nuclear Capability Modernization 0 80 874 Total, Non-Nuclear Capability Modernization 10 80 874 Total, Non-Nuclear Capability Modernization 10 80 874 Capability Based Investments 17,110 19,479 21,000 Primary Capability Modernization 1,068,641 1,632,852				
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Depleted Uranium Modernization 3,314 9,142 8,400 Lithium Modernization 0 0 0 1,000 Secondary Capability Modernization 6,764 12,592 18,500 Tritium Sustainment and Modernization 38 2,040 2,100 Tritium and Domestic Uranium Enrichment 38 2,040 2,100 Non-Nuclear Capability Modernization 0 800 874 Totals, Non-Nuclear Capability Modernization 0 800 874 Capability Based Investments 17,110 19,479 21,000 Planning for Programmatic Construction (Pre-CD-1) 2,500 0 0 Production Modernization 1,076,625 1,068,864 1,632,852 Primary Assessment Technologies 65,988 46,800 82,433 Dynamic Materials Properties 35,400 5,400 5,400 Advanced Diagnostics 5,400 5,400 5,400 Secondary Assessment Technologies 30,450 30,500 26,653 Enhanced Capabilities for Subcritical Experiment Execution Support				, ,
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Aging and Lifetimes 17,572 17,000 17,200 Stockpile Responsiveness 19,712 19,233 18,353 Advanced Certification and Qualification 24,803 22,700 21,571 Engineering and Integrated Assessments 103,731 100,283 99,329 Inertial Confinement Fusion 20,000 20,000 20,000 Surety Technologies 13,793 12,900 14,000	Weapons Survivability	13,505	13,500	13,983
Stockpile Responsiveness 19,712 19,233 18,353 Advanced Certification and Qualification 24,803 22,700 21,571 Engineering and Integrated Assessments 103,731 100,283 99,329 Inertial Confinement Fusion 20,000 20,000 20,000 Surety Technologies 13,793 12,900 14,000	Studies and Assessments	0	0	750
Advanced Certification and Qualification 24,803 22,700 21,571 Engineering and Integrated Assessments 103,731 100,283 99,329 Inertial Confinement Fusion 20,000 20,000 20,000 Surety Technologies 13,793 12,900 14,000	Aging and Lifetimes	17,572	17,000	17,200
Engineering and Integrated Assessments 103,731 100,283 99,329 Inertial Confinement Fusion 20,000 20,000 20,000 Surety Technologies 13,793 12,900 14,000	Stockpile Responsiveness	19,712	19,233	18,353
Inertial Confinement Fusion 20,000 20,000 20,000 Surety Technologies 13,793 12,900 14,000	Advanced Certification and Qualification	24,803	22,700	21,571
Surety Technologies 13,793 12,900 14,000	Engineering and Integrated Assessments	103,731	100,283	99,329
	Inertial Confinement Fusion	20,000	20,000	20,000
Weapon Technology Development 30,616 27,115 26,918	Surety Technologies	13,793	12,900	14,000
	Weapon Technology Development	30,616	27,115	26,918

DEPARTMENT OF ENERGY
Laboratory Table
Los Alamos National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Advanced Manufacturing Development	25,996	27,547	27,118
Weapons Technology and Manufacturing Maturation	70,405	67,562	68,036
Advanced Simulation and Computing	184,054	184,054	189,250
Advanced Simulation & Computing	184,054	184,054	189,250
Stockpile Research, Technology, and Engineering	653,719	631,014	657,686
Operations of Facilities	304,471	288,500	325,000
Safety and Environmental Operations	18,820	17,464	17,321
Maintenance and Repair of Facilities	149,873	145,000	156,000
Infrastructure and Safety	128,678	81,148	96,386
Recapitalization	128,678	81,148	96,386
Operating	601,842	532,112	594,707
23-D-518 Plutonium Modernization Operations & Waste Management Office Bldg, LANL	0	0	48,500
23-D-517 Electrical Power Capacity Upgrade, LANL	0	0	24,000
Mission Enabling Construction	0	0	72,500
I&O - Construction	0	0	72,500
Infrastructure and Operations	601,842	532,112	667,207
Operations and Maintenance - DNS	117,360	117,360	136,212
Defense Nuclear Security (DNS)	117,360	117,360	136,212
Information Technology and Cyber Security	20,290	19,165	22,545
Conversion	450	1,495	934
Nuclear Material Removal	800	750	200
Material Disposition	74,075	62,573	102,695
Laboratory and Partnership Support	1,325	0	0
Material Management and Minimization	76,650	64,818	103,829
International Nuclear Security	2,153	3,456	2,213
Radiological Security	93,556	24,475	83,292
Nuclear Smuggling Detection and Deterrence	10,107	10,000	10,286
Global Material Security	105,816	37,931	95,791
Nonproliferation & Arms Control	22,304	22,304	48,280
Proliferation Detection R&D	35,689	36,479	40,124
Nuclear Detonation Detection	88,660	95,852	91,214
Forensics R&D	10,565	10,196	10,565
Nonproliferation Stewardship Program	450	0	2,463
Defense Nuclear Nonproliferation R&D	135,364	142,527	144,366
NNSA Bioassurance Program	0	0	5,000
Counterterrorism and Counterproliferation	65,804	66,507	80,186
Nuclear Counterterrorism & Incident Response	65,804	66,507	80,186
Research - Advanced Scientific Computing Research	4,096	1,469	1,782
Advanced Scientific Computing Research	4,096	1,469	1,782
Research - Basic Energy Sciences	20,646	22,787	21,320
Basic Energy Sciences	20,646	22,787	21,320
Research - Biological & Environmental Research	32,230	32,230	34,667
Biological and Environmental Research	32,230	32,230	34,667
Research - Fusion Energy Sciences	1,700	1,700	300
Fusion Energy Sciences	1,700	1,700	300
Research - High Energy Physics	3,177	1,650	1,890
High Energy Physics	3,177	1,650	1,890
Operations and Maintenance - Nuclear Physics	8,259	8,752	9,039
Nuclear Physics	8,259	8,752	9,039
Research - Accelerator R&D and Production	0	50	0
Accelerator R&D and Production	0	50	0
Safeguards and Security - SC	248	248	0

DEPARTMENT OF ENERGY
Laboratory Table
Los Alamos National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Bioenergy Technologies	6,800	6,800	6,000
Hydrogen and Fuel Cells Technologies	4,940	4,500	5,000
Sustainable Transportation	11,740	11,300	11,000
Solar Energy Technologies	21,686	21,686	40,350
Wind Energy Technologies	365	440	1,046
Geothermal Technologies	250	12	0
Renewable Power	22,301	22,138	41,396
Transmission Reliability and Resilience	3,926	0	3,250
Energy Delivery Grid Operations Technology	0	0	4,500
Resilient Distribution Systems	1,281	0	1,300
Cybersecurity for Energy Delivery Systems	350	350	0
Risk Management Technology and Tools	0	0	500
Carbon Capture	1,264	1,264	0
Carbon Storage	2,794	2,794	0
CCS and Power Systems	4,058	4,058	0
Advanced Energy Systems	128	128	0
Cross Cutting Research	306	306	0
Advanced Coal Energy Systems & CCUS	434	434	0
Advanced Oil and Gas Prod Tech (Unconv FE)	1,279	1,279	0
Advanced Reactor Technologies	2,452	2,452	3,500
Reactor Concepts RD&D	2,452	2,452	3,500
Accident Tolerant Fuels	4,230	4,230	4,606
Fuel Cycle Laboratory R&D	2,000	2,000	4,660
HALEU Availability	0	0	5,745
Used Nuclear Fuel Disposition R&D	3,400	3,400	3,400
Fuel Cycle Research & Development	9,630	9,630	18,411
Crosscutting Technology Development	352	352	400
Joint Modeling and Simulation Program	2,128	2,128	3,000
Nuclear Science User Facilities	252	252	300
Nuclear Energy Enabling Technologies	2,732	2,732	3,700
Risk Reduction for Future Demonstration	0	0	200
Advanced Reactors Safeguards	500	500	400
Advanced Reactors Demonstration Program	500	500	600
Environment, Health, Safety & Security	95	95	95
Environment, Health, Safety, and Security	95	95	95
Office of Technology Transitions (DA)	55	55	0
Los Alamos National Laboratory (LANL)	226,000	226,000	286,316
Los Alamos Excess Facilities D&D	0	0	40,519
NNSA Sites and Nevada Off-Sites	226,000	226,000	326,835
Safeguards and Security - Defense Environmental Cleanup	0	0	5,000
Total Los Alamos National Laboratory	3,647,553	3,448,106	4,575,112

Laboratory Table
Los Alamos Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Los Alamos Site Office			
Information Technology and Cyber Security	63	77	60
Program Direction - National Nuclear Security Administration	17,001	17,397	20,669
Transformational Challenge Reactor	269	269	0
Nuclear Energy Enabling Technologies	269	269	0
Total Los Alamos Site Office	17,333	17,743	20,729

Laboratory Table
Miamisburg Site FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Miamisburg Site			
Environment, Health, Safety & Security	5	5	5
Environment, Health, Safety, and Security	5	5	5
Total Miamisburg Site	5	5	5

Laboratory Table Moab Site FY 2023 (Dollars in Thousands)

FY 2021	FY 2022	FY 2023
Enacted	Annualized CR	Request Detail
47,83	3 47,833	67,000
47,83	3 47,833	67,000

Laboratory Table
Mound Site FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Mound Site			
Legacy Management Activities - Defense	12,738	12,738	12,083
Legacy Management	12,738	12,738	12,083
Total Mound Site	12,738	12,738	12,083

DEPARTMENT OF ENERGY Laboratory Table National Energy Technology Lab FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
National Energy Technology Lab			
B61-12 LEP	5,700	0	0
W88 ALT 370	3,526	5,462	0
W80-4 LEP	10,000	11,900	0
W87-1 Modification Program	5,807	6,262	0
W93 Program	0	500	0
Stockpile Major Modernization	25,033	24,124	0
Stockpile Sustainment	11,755	10,823	9,471
Production Operations	5,325	6,926	0
Stockpile Management	42,113	41,873	9,471
Los Alamos Plutonium Operations	2,000	0	0
Los Alamos Plutonium Modernization	2,000	0	0
Enterprise Plutonium Support	2,000	5,000	5,500
Plutonium Modernization	4,000	5,000	5,500
Primary Capability Modernization	4,000	5,000	5,500
Uranium Modernization	500	500	500
Depleted Uranium Modernization	0	500	0
Lithium Modernization	500	500	500
Secondary Capability Modernization	1,000	1,500	1,000
Tritium Sustainment and Modernization	2,615	0	2,600
Tritium and Domestic Uranium Enrichment	2,615	0	2,600
Non-Nuclear Capability Modernization	2,400	3,078	3,367
Total, Non-Nuclear Capability Modernization	2,400	3,078	3,367
Production Modernization	10,015	9,578	12,467
Archiving and Support	230	592	378
Delivery Environments	307	305	251
Weapons Survivability	588	373	478
Aging and Lifetimes	1,121	215	193
Stockpile Responsiveness	397	398	327
Advanced Certification and Qualification	505	413	327
Engineering and Integrated Assessments	3,148	2,296	1,954
Surety Technologies	1,736	1,903	1,166
Weapon Technology Development	320	227	583
Advanced Manufacturing Development	4,438	765	593
Weapons Technology and Manufacturing Maturation	6,494	2,895	2,342
Advanced Simulation and Computing	0	0	250
Advanced Simulation & Computing	0	0	250
Stockpile Research, Technology, and Engineering	9,642	5,191	4,546
Safety and Environmental Operations	150	0	0
Operating	150	0	0
Infrastructure and Operations	150	0	0
Material Disposition	650	750	720
Material Management and Minimization	650	750	720
International Nuclear Security	763	500	784
Global Material Security	763	500	784
Nonproliferation & Arms Control	104	104	131
Program Direction - National Nuclear Security Administration	1,269	113	113
Vehicle Technologies	170,560	145,000	362,421
Bioenergy Technologies	800	800	750
sissing, rounninging	800	300	730

Laboratory Table
National Energy Technology Lab FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Hydrogen and Fuel Cells Technologies	4,000	16,100	16,100
Sustainable Transportation	175,360	161,900	379,271
Geothermal Technologies	30,553	0	25,000
Renewable Power	30,553	0	25,000
Building Technologies	14,295	3,548	4,790
Energy Efficiency	14,295	3,548	4,790
Program Direction - Energy Efficiency and Renewable Energy	10,928	11,472	22,874
Strategic Programs	1,500	0	0
Corporate Support	12,428	11,472	22,874
Transmission Reliability and Resilience	250	0	2,000
Energy Delivery Grid Operations Technology	0	0	500
Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	1,900
Program Direction - Electricity	1,469	2,610	1,435
Cybersecurity for Energy Delivery Systems	42,000	42,000	0
Infrastructure Security and Energy Restoration	3,800	3,800	0
Risk Management Technology and Tools	0	0	55,000
Response and Restoration	0	0	2,000
Information Sharing, Partnerships and Exercises	0	0	2,300
Program Direction - CESER	2,000	2,000	5,000
Carbon Capture	8,562	8,562	0
Carbon Utilization	4,365	4,365	0
Carbon Storage	15,509	15,509	0
STEP Supercritical CO2	14,500	14,500	0
Transformational Coal Pilots	10,000	10,000	0
CCS and Power Systems	52,936	52,936	0
Advanced Energy Systems	20,994	20,994	0
Cross Cutting Research	18,731	18,731	0
Advanced Coal Energy Systems & CCUS	39,725	39,725	0
Mineral Sustainability	7,357	7,357	0
Carbon Dioxide Removal	1,000	1,000	0
Advanced Oil and Gas Prod Tech (Unconv FE)	38,489	38,489	0
Natural Gas Technologies Research	25,000	25,000	0
NETL Research and Operations - Fossil Energy	83,000	83,000	0
NETL Infrastructure - Fossil Energy	55,000	55,000	0
Program Direction - Fossil Energy Field	27,780	27,780	0
Strategic Petroleum Reserve (SPR)	488	488	300
LWR Sustainability	117	117	0
Advanced Reactor Technologies	100	100	0
Reactor Concepts RD&D	217	217	0
Crosscutting Technology Development	209	209	210
Nuclear Energy Enabling Technologies	209	209	210
	150	150	150
Strategic Partnership Projects	150	150	150
Strategic Partnership Projects and Revenues			
Legacy Management Activities - Defense	2,403	2,403	1,976
Legacy Management	2,403	2,403	1,976
Loan Guarantee Program	136	720	720
Program Direction - OCED	0	0	3,050
Program Direction - Grid Deployment Office	0	0	451
otal National Energy Technology Lab	680,751	619,913	537,159

Laboratory Table
National Renewable Energy Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
National Renewable Energy Laboratory			
Research - Basic Energy Sciences	5,742	5,742	5,742
Basic Energy Sciences	5,742	5,742	5,742
Research - Biological & Environmental Research	3,877	3,877	3,760
Biological and Environmental Research	3,877	3,877	3,760
Vehicle Technologies	34,550	38,460	44,525
Bioenergy Technologies	63,600	63,000	42,500
Hydrogen and Fuel Cells Technologies	15,236	18,500	21,500
Sustainable Transportation	113,386	119,960	108,525
Renewable Energy Grid Integration	0	0	10,000
Wind Energy Technologies	36,164	38,420	103,590
Water Power Technologies	18,606	17,850	21,633
Geothermal Technologies	1,416	12,985	3,000
Renewable Power	56,186	69,255	138,223
Advanced Manufacturing	10,707	4,500	5,500
Building Technologies	33,120	27,510	26,000
Federal Energy Management Program (EERE)	9,000	8,150	0
Weatherization Assistance Program (EERE)	1,000	0	0
Training and Technical Assistance (EERE)	1,800	1,000	0
State Energy Program Grants (EERE)	475	1,200	0
Weatherization and Intergovernmental Programs	3,275	2,200	0
Energy Efficiency	56,102	42,360	31,500
Strategic Programs	5,500	2,000	6,385
Facilities and Infrastructure - NREL	130,000	130,000	210,100
21-EE-001, Energy Materials Processing at Scale (EMAPS)	0	0	60,000
23-TBD, South Table Mountain (STM) Carbon Free District Heating/Cooling	0	0	31,500
Facilities and Infrastructure	130,000	130,000	301,600
Corporate Support	135,500	132,000	307,985
Transmission Reliability and Resilience	4,615	0	1,600
Energy Delivery Grid Operations Technology	0	0	1,000
Resilient Distribution Systems	5,350	0	5,300
Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	3,000
Energy Storage R&D	208	0	100
Energy Storage	208	0	100
Transformer Resilience and Advanced Components	0	0	1,000
Transmission Permitting and Technical Assistance	3,725	0	0
Cybersecurity for Energy Delivery Systems	2,200	2,200	0
Infrastructure Security and Energy Restoration	600	600	0
Risk Management Technology and Tools	0	0	2,900
Response and Restoration	0	0	300
Information Sharing, Partnerships and Exercises	0	0	500
Carbon Utilization	2,250	2,250	0
CCS and Power Systems	2,250	2,250	0
Cross Cutting Research	306	306	0
Advanced Coal Energy Systems & CCUS	306	306	0
Crosscutting Technology Development	142	142	142
Nuclear Energy Enabling Technologies	142	142	142
Strategic Partnership Projects	500	500	500
Strategic Partnership Projects and Revenues	500	500	500

DEPARTMENT OF ENERGY
Laboratory Table
National Renewable Energy Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Office of Technology Transitions (DA)	1,378	1,378	0
Loan Guarantee Program	405	0	0
Administrative Expenses - Tribal Energy Loan Guarantee Program	45	0	0
Grid Planning & Development	0	0	5,500
Grid Technical Assistance	0	0	2,000
Total National Renewable Energy Laboratory	392,517	380,570	619,577

Laboratory Table
Naval Petroleum Reserve No 1 FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Naval Petroleum Reserve No 1			
Naval Petroleum and Oil Shale Reserve	11,000	11,000	11,004
Total Naval Petroleum Reserve No 1	11,000	11,000	11,004

Laboratory Table
Naval Reactors Facility FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Naval Reactors Facility			_
Naval Reactors Development	14,534	14,534	115,459
14-D-901 Spent Fuel Handling Recapitalization Project, NRF	310,587	310,587	387,541
Construction - Naval Reactors	310,587	310,587	387,541
Total Naval Reactors Facility	325,121	325,121	503,000

Laboratory Table
Naval Reactors Laboratory Field Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Naval Reactors Laboratory Field Office			
Program Direction - Naval Reactors	20,680	20,680	23,410
Total Naval Reactors Laboratory Field Office	20,680	20,680	23,410

Laboratory Table
Naval Research Laboratory FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Naval Research Laboratory			
Secondary Assessment Technologies	2,500	1,000	2,500
Assessment Science	2,500	1,000	2,500
Inertial Confinement Fusion	6,000	6,000	0
Stockpile Research, Technology, and Engineering	8,500	7,000	2,500
Total Naval Research Laboratory	8,500	7,000	2,500

Laboratory Table
Nevada Field Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Nevada Field Office			
Information Technology and Cyber Security	1,232	1,191	1,335
Program Direction - National Nuclear Security Administration	18,203	16,625	19,821
Program Direction - Nuclear Energy	1,737	1,737	1,897
Environment, Health, Safety & Security	15	15	15
Environment, Health, Safety, and Security	15	15	15
Program Direction - Defense Environmental Cleanup	2,621	2,621	3,161
Total Nevada Field Office	23,808	22,189	26,229

DEPARTMENT OF ENERGY
Laboratory Table
Nevada National Security Site FY 2023
(Dollars in Thousands)

Novada National Socurity Site Enumerical Machinal Socurity Site Recorder Socurity Site Stockpin Suttainment 1,886 1,289 628 Wespons Diminatifement and Disposition 48 0 0 Production Operators 57 0 0 Nuclear Enterprise Assurance 2001 1,289 8,189 Enterprise Pittennum Support 13,800 13,200 11,087 Pluctorium Modernization 200 0 0 3,000 H.E. Schreguled 90 0 1,000 3,000 Pluctorium Modernization 0 0 0 0 Plus Subtiment and Modernization 0 200 0 Seconary Capability Modernization 153 150 110 Titus and Domastic Union Enrichment 153 150 110 Trium and Domastic Union Enrichment 153 150 150 Trium Anne Capability Modernization 20 110 111 Total, Novel Capability Modernization 20 1,00 1,00 Tota		FY 2021	FY 2022	FY 2023
Bookpie Seutsimment 1,889 1,289 628 Wespuers Demantlement and Disposition 48 0 0 Production Operatorions 57 0 0 Notes Enterprise Assurance 20 1,289 1,191 Studiaçia Management 2,001 1,200 1,1087 Flatering Platonium Support 13,000 1,200 1,1087 Plutonium Modernization 190 1,000 3,000 H.E. Sturgistic 900 1,000 1,000 Primary Capathly Modernization 0 200 0 Depleated Unrainer Muterinization 0 200 0 Tribum Sustainment and Modernization 153 150 160 Tribum Anna Marken Sustainment Envillement and Sustainment Environment Sustain		Enacted	Annualized CR	Request Detail
Production Operations	Nevada National Security Site			
Production Operations G 0 0 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 7,563 1,1087	Stockpile Sustainment	1,896	1,289	628
Nuclear Enterprise Assurance 0	Weapons Dismantlement and Disposition	48	0	0
Stockpile Marragement 2,001 1,289 8,191 Enterprise Plutorium Support 13,600 13,200 11,067 Pillos Explosives & Energistics 300 1,000 3,000 HE & Energistics 300 1,000 3,000 Privary Capability Modernization 14,000 4,000 0 Depleted Uranium Modernization 0 200 0 Secondary Capability Modernization 153 150 160 Tritium Sustainment and Modernization 153 150 160 Tritium and Domestic Uranium Enrichment 153 150 160 Tritium Sustainment and Modernization 0 110 112 Total, Non-Nuclear Capability Modernization 0 110 112 Total, Non-Nuclear Capability Modernization 26,473 27,010 22,330 Primary Assessment Technologies 1,000 1,000 1,500 Production Modernization 26,473 27,010 22,339 Primary Assessment Technologies 1,000 1,000 1,500 <t< td=""><td>Production Operations</td><td>57</td><td>0</td><td>0</td></t<>	Production Operations	57	0	0
Enterprise Plutonium Nademization 13,600 13,200 11,007 Plutonium Nademization 13,500 13,200 10,000 HS Energistics 500 1,000 3,000 Primary Capability Modernization 45,000 14,000 3,000 Primary Capability Modernization 0 200 0 Secondary Capability Modernization 153 150 160 Tritium and Domestic Unanium Inferichment 153 150 160 Tritium Sustainment and Modernization 0 100 10 Tritium Anna Domestic Unanium Enrichment 153 150 160 Tritium Anna Domestic Unanium Enrichment 153 150 160 Tritium Anna Domestic Unanium Enrichment 153 150 160 Tritium Sustainment and Modernization 0 110 112 Clapability Bosed Investments 1,00 2,00 110 112 Clapability Bosed Investments 1,00 2,47 2,710 2,339 Primary Assessment Technologies 1,00 4,50 <th< td=""><td>Nuclear Enterprise Assurance</td><td>0</td><td>0</td><td>7,563</td></th<>	Nuclear Enterprise Assurance	0	0	7,563
Putucnium Modemization	Stockpile Management	2,001	1,289	8,191
High Explaives & Energetics 900 1.000 3.000 1.000 1.000 3.000 1.000 1.000 3.000 1.00	Enterprise Plutonium Support	13,600	13,200	11,087
Primary Capability Modernization	Plutonium Modernization	13,600	13,200	11,087
Primary Capability Modernization 14,500 14,200 04,007 Depleted Uranium Modernization 0 200 0 Secondary Capability Modernization 153 150 160 Tritium Sustainment and Modernization 153 150 160 Tritium and Domestic Utanium Enrichment 153 150 160 Non-Nuclear Capability Modernization 0 110 112 Total, Koni-Nuclear Capability Modernization 0 110 112 Capability Based Investments 11,802 12,303 15,000 Primacy Assessment Technologies 1,000 1,000 1,500 Dynamic Materials Properties 1,000 2,000 6,000 Secondary Assessment Technologies 6,000 6,000 6,000 Advanced Diagnestics 6,000 6,000 6,000 Secondary Assessment Technologies 1,00 2,4 0 Enhanced Capabilities for Subcritical Experiment Executors Support 47,500 4,500 4,500 Hydrodynamic and Subcritical Experiment Executors Support 3,60	High Explosives & Energetics	900	1,000	3,000
Depleted Uranium Modernization 0 200 0 Secondary Capability Modernization 0 200 0 Tritium Stainment and Modernization 153 150 160 Tritium Stainment and Modernization 0 1110 112 Total, Non-Nuclear Capability Modernization 0 110 112 Total, Non-Nuclear Capability Modernization 20 110 112 Total, Non-Nuclear Capability Modernization 26,473 27,010 29,399 Production Modernization 26,473 27,010 29,399 Primary Assessment Technologies 10,00 6,000 6,000 Advanced Diagnositics 6,600 6,600 6,000 Secondary Assessment Technologies 39,544 44,43 48,009 Enhanced Capabilities for Subcritical Experiments 39,544 44,43 48,009 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 47,500 48,000 17-D-8-40, UT al Complete Enhancements Project, NNS 15,200 47,500 47,000 48,000	HE & Energistics	900	1,000	3,000
Secondary Capability Modernization 0 200 0 Tritium Sustainment and Modernization 153 150 160 Tritium and Domestic Uranium Enrichment 153 150 160 Non-Nuclear Capability Modernization 0 110 1112 Total, Non-Nuclear Capability Modernization 0 110 112 Capability Based Investments 11,80 12,30 15,000 Production Modernization 26,473 27,701 29,359 Prinary Assessment Technologies 10,00 1,000 1,500 Dynamic Materials Properties 17,000 12,000 1,000 Advanced Diagnostics 6,00 6,600 6,000 Secondary Assessment Technologies 0 2,48 0 Erhanced Capabilities for Subcritical Experiments 39,54 44,43 48,009 Hydrodynamic and Subcritical Experiments 39,54 44,41 48,009 Hydrodynamic and Subcritical Experiments Execution Support 47,50 49,000 47,500 49,009 Assessment Science 264,24	Primary Capability Modernization	14,500	14,200	14,087
Tritium Sustainment and Modernization 153 150 160 Tritium and Domestic Uzanium Enrichment 153 150 160 Non-Nuclar Capability Modernization 0 110 112 Total, Non-Nuclear Capability Modernization 0 110 112 Capability Eased Investments 11,802 12,000 150 Production Modernization 26,473 27,000 29,350 Primary Assessment Technologies 1,000 1,000 1,000 Advanced Diagnostics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 0 Erhanced Capabilities for Subcritical Experiments 39,546 44,433 48,009 Hydrodynamic and Subcritical Experiments Executor Support 47,500 47,500 47,500 45,00	Depleted Uranium Modernization	0	200	0
Tritium and Domestic Uranium Enrichment 153 150 160 Non-Nuclear Capability Modernization 0 110 1112 Total, Non-Nuclear Capability Modernization 0 110 1112 Capability Based Investments 11,820 12,536 15,000 Production Modernization 26,473 27,010 29,359 Primary Assessment Technologies 1,000 12,000 11,000 Dynamic Materials Properties 1,000 6,600 6,600 6,000 Secondary Assessment Technologies 6,600 6,600 6,000 6,000 Secondary Assessment Technologies 9,546 44,443 48,099 Hydrodynamic and Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 47,500 46,000 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,694 3,354 3,350 Archiving and Support 3,694 3,354 3,350 Ingineering and	Secondary Capability Modernization	0	200	0
Non-Nuclear Capability Modernization 0 110 112 Totals, Non-Nuclear Capability Modernization 0 110 112 Capability Based Investments 11,820 12,350 15,000 Production Modernization 26,473 27,010 29,338 Primary Assessment Technologies 11,000 1,000 1,000 Dynamic Materials Properties 17,000 6,600 6,600 Advanced Diagnositics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 40,000 Hydrodynamic and Subcritical Experiment Execution Support 47,500 44,500 46,000 Hydrodynamic and Subcritical Experiment Execution Support 47,500 41,500 45,000 53,130 Assessment Science 264,246 241,791 166,629 3,390 15,100 3,390 166,629 3,390 166,629 3,390 166,629 3,390 166,629 3,390 166,629 3,390 166,629 3,390 166,629 3,390 166,629 3,390 166,629 <	Tritium Sustainment and Modernization	153	150	160
Total, Non-Nuclear Capability Modernization 0 110 112 Capability Based Investments 11,820 12,350 15,000 Production Modernization 26,473 27,010 29,358 Primary Assessment Technologies 1,000 1,000 1,000 Dynamic Materials Properties 17,000 12,000 11,000 Advanced Diagnostics 6,600 6,600 6,600 Secondary Assessment Technologies 0 24,8 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 45,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,684 3,354 3,300 Advanced Certification and Qualification 4,462 4,201 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 1,188 1,308 1,299 Weapon Technology Development 1,198 </td <td>Tritium and Domestic Uranium Enrichment</td> <td>153</td> <td>150</td> <td>160</td>	Tritium and Domestic Uranium Enrichment	153	150	160
Capability Based Investments 11,820 12,350 15,000 Production Modernization 26,473 27,010 29,359 Primary Assessment Technologies 1,000 1,000 1,500 Dynamic Materials Properties 17,000 12,000 11,000 Advanced Diagnostics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 46,900 17-D-640, Uta Complex Enhancements Project, NNSS 152,600 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,961 3,350 4,462 4,200 3,991 Enjancering and Integrated Assessments 8,156 7,554 7,341 1,666,29 Weapons Technology Development 1,198 1,30 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,660 <	Non-Nuclear Capability Modernization	0	110	112
Production Modernization 26,473 27,010 29,358 Primary Assessment Technologies 1,000 1,000 1,500 Dynamic Materials Properties 17,000 16,000 11,000 Advanced Diagnostics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 46,900 170-E40,U 12 Complex Enhancements Project, NNSS 152,600 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,894 3,334 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpilic Research, Technology, and Engineerin	Total, Non-Nuclear Capability Modernization	0	110	112
Primary Assessment Technologies 1,000 1,000 1,000 Dynamic Materials Properlies 17,000 12,000 11,000 Advanced Diagnostics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 64,900 17-D-640, Uta Complex Enhancements Project, NNSS 152,600 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,894 3,354 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confliement Fusion 4,00 4,00 4,00 Weapon Technology Development 1,198 1,308 1,299 Stockpile Research, Technology, and Manufacturing Maturation 1,198 1,30 1,299 Stockpile Research, Technology, an	Capability Based Investments	11,820	12,350	15,000
Dynamic Materials Properties 17,000 12,000 11,000 Advanced Diagnostics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 46,900 150,000 53,130 Assessment Science 224,246 241,791 166,629 Archiving and Support 3,694 3,354 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 64,342 61,000 62,000 Maintenance and Repair of Facilities 43,731 53,275 42,050 Recapitalization	Production Modernization	26,473	27,010	29,359
Advanced Diagnostics 6,600 6,600 6,000 Secondary Assessment Technologies 0 248 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,090 Hydrodynamic and Subcritical Experiment Execution Support 47,500 46,900 130,000 53,130 Assessment Science 264,246 241,791 166,229 Archiving and Support 3,694 3,354 3,350 Activining and Support 4,462 4,200 3,991 4,602 4,701 166,229 Archiving and Integrated Assessments 8,156 7,554 7,341 1,940 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299	Primary Assessment Technologies	1,000	1,000	1,500
Secondary Assessment Technologies 0 248 0 Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,099 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 64,090 17-D-640, Uta Complex Enhancements Project, NNSS 152,60 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,694 3,354 3,350 Advanced Certification and Qualification 4,462 4200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapons Technology Development 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 46,434 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Operating <	Dynamic Materials Properties	17,000	12,000	11,000
Enhanced Capabilities for Subcritical Experiments 39,546 44,443 48,090 Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 46,900 17-D-640, U1a Complex Enhancements Project, NNSS 152,600 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,694 3,354 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Oper	Advanced Diagnostics	6,600	6,600	6,000
Hydrodynamic and Subcritical Experiment Execution Support 47,500 47,500 46,900 17-D-640, U1a Complex Enhancements Project, NNSS 152,600 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,684 3,354 3,350 Advanced Certification and Qualification 4,622 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 64,342 61,000 62,000 Infrastructure and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-De70, 138kV Power Transmission S	Secondary Assessment Technologies	0	248	0
17-D-640, U1a Complex Enhancements Project, NNSS 152,600 130,000 53,130 Assessment Science 264,246 241,791 166,629 Archiving and Support 3,694 3,354 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,166 7,554 7,341 Inertial Confirement Fusion 4,000 4,000 4,400 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS	Enhanced Capabilities for Subcritical Experiments	39,546	44,443	48,099
Assessment Science 264,246 241,791 166,629 Archiving and Support 3,694 3,354 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,400 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology, and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 43,421 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000	Hydrodynamic and Subcritical Experiment Execution Support	47,500	47,500	46,900
Archiving and Support 3,694 3,354 3,350 Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Operating 218,446 233,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNS 59,000 59,000 0 18O - Construction 59,000 59,000 0 18O - Construction 59,000 59,00	17-D-640, U1a Complex Enhancements Project, NNSS	152,600	130,000	53,130
Advanced Certification and Qualification 4,462 4,200 3,991 Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support	Assessment Science	264,246	241,791	166,629
Engineering and Integrated Assessments 8,156 7,554 7,341 Inertial Confinement Fusion 4,000 4,000 4,000 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operations 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 IsO - Construction 59,000 59,000 59,000 0 IsO - Construction 59,000 59,000 50 Infrastructure and Operations 277,446 282,254 215,368 Program Direction	Archiving and Support	3,694	3,354	3,350
Inertial Confinement Fusion 4,000 4,000 4,400 Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Ik8O - Construction 59,000 59,000 0 Ik8O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7	Advanced Certification and Qualification	4,462	4,200	3,991
Weapon Technology Development 1,198 1,308 1,299 Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 IkO - Construction 59,000 59,000 0 IkO - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 34	Engineering and Integrated Assessments	8,156	7,554	7,341
Weapons Technology and Manufacturing Maturation 1,198 1,308 1,299 Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 18O - Construction 59,000 59,000 0 0 Iko - Construction 59,000 59,000 0 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051	Inertial Confinement Fusion	4,000	4,000	4,400
Stockpile Research, Technology, and Engineering 277,600 254,653 179,669 Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 18O - Construction 59,000 59,000 0 18O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051	Weapon Technology Development	1,198	1,308	1,299
Operations of Facilities 105,733 103,000 105,000 Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 1&O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Weapons Technology and Manufacturing Maturation	1,198	1,308	1,299
Safety and Environmental Operations 4,640 5,979 6,318 Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 1&O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 92,051	Stockpile Research, Technology, and Engineering	277,600	254,653	179,669
Maintenance and Repair of Facilities 64,342 61,000 62,000 Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 18O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Operations of Facilities	105,733	103,000	105,000
Infrastructure and Safety 43,731 53,275 42,050 Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 18O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Safety and Environmental Operations	4,640	5,979	6,318
Recapitalization 43,731 53,275 42,050 Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 1&O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Maintenance and Repair of Facilities	64,342	61,000	62,000
Operating 218,446 223,254 215,368 19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 1&O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Infrastructure and Safety	43,731	53,275	42,050
19-D-670, 138kV Power Transmission System Replacement, NNSS 59,000 59,000 0 Mission Enabling Construction 59,000 59,000 0 1&O - Construction 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Recapitalization	43,731	53,275	42,050
Mission Enabling Construction 59,000 59,000 0 1&O - Construction 59,000 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Operating	218,446	223,254	215,368
1&O - Construction 59,000 59,000 59,000 0 Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	19-D-670, 138kV Power Transmission System Replacement, NNSS	59,000	59,000	0
Infrastructure and Operations 277,446 282,254 215,368 Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Mission Enabling Construction	59,000	59,000	0
Program Direction - STA - Federal Support 327 7 340 Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	I&O - Construction	59,000	59,000	0
Secure Transportation Asset 327 7 340 Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Infrastructure and Operations	277,446	282,254	215,368
Operations and Maintenance - DNS 85,620 85,620 92,051 Defense Nuclear Security (DNS) 85,620 85,620 92,051	Program Direction - STA - Federal Support	327	7	340
Defense Nuclear Security (DNS) 85,620 85,620 92,051	Secure Transportation Asset	327	7	340
	Operations and Maintenance - DNS	85,620	85,620	92,051
Information Technology and Cyber Security 6,297 6,157 29,417	Defense Nuclear Security (DNS)	85,620	85,620	92,051
	Information Technology and Cyber Security	6,297	6,157	29,417

DEPARTMENT OF ENERGY
Laboratory Table
Nevada National Security Site FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Nuclear Material Removal	0	100	0
Material Management and Minimization	0	100	0
International Nuclear Security	243	0	250
Radiological Security	857	535	763
Global Material Security	1,100	535	1,013
Nonproliferation & Arms Control	296	296	375
Proliferation Detection R&D	14,985	12,500	16,847
Nuclear Detonation Detection	20,139	25,871	20,719
Forensics R&D	120	906	120
Nonproliferation Stewardship Program	8,000	15,800	14,153
Defense Nuclear Nonproliferation R&D	43,244	55,077	51,839
Emergency Operations	21,609	21,609	50
Counterterrorism and Counterproliferation	44,144	41,767	45,467
Nuclear Counterterrorism & Incident Response	65,753	63,376	45,517
Program Direction - National Nuclear Security Administration	150	150	150
Office of Technology Transitions (DA)	25	25	0
Nevada Site	55,672	55,672	58,752
NNSA Sites and Nevada Off-Sites	55,672	55,672	58,752
Total Nevada National Security Site	842,004	832,221	712,041

Laboratory Table
Nevada Operations Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Nevada Operations Office			
Nevada Site	5,065	5,065	3,900
NNSA Sites and Nevada Off-Sites	5,065	5,065	3,900
Total Nevada Operations Office	5,065	5,065	3,900

DEPARTMENT OF ENERGY
Laboratory Table
NNSA Albuquerque Complex FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
NNSA Albuquerque Complex			
B61-12 LEP	135,119	258,965	109,596
W88 ALT 370	43,722	86,593	30,424
W80-4 LEP	35,810	27,042	41,451
W87-1 Modification Program	34,430	1,800	12,799
W93 Program	8,337	7,837	24,000
Stockpile Major Modernization	257,418	382,237	218,270
Stockpile Sustainment	47,303	26,585	89,221
Weapons Dismantlement and Disposition	315	1,538	0
Production Operations	22,248	7,500	13,106
Nuclear Enterprise Assurance	0	0	2,369
Stockpile Management	327,284	417,860	322,966
Los Alamos Plutonium Operations	18,993	6,537	5,022
15-D-302, TA-55 Reinvestments Project, Phase 3, LANL	500	750	0
07-D-220-04, Transuranic Liquid Waste Facility, LANL	500	36,687	0
04-D-125, Chemistry and Metallurgy Research Replacement Project, LANL	300	300	0
Los Alamos Plutonium Modernization	20,293	44,274	5,022
Enterprise Plutonium Support	13,718	10,497	2,066
Plutonium Modernization	34,011	54,771	7,088
Primary Capability Modernization	34,011	54,771	7,088
Tritium Sustainment and Modernization	154,606	102,952	134,492
Tritium and Domestic Uranium Enrichment	154,606	102,952	134,492
Production Modernization	188,617	157,723	141,580
Dynamic Materials Properties	5,000	6,500	6,500
Assessment Science	5,000	6,500	6,500
Archiving and Support	0	575	0
Delivery Environments	0	1,430	0
Weapons Survivability	0	6,667	5,432
Aging and Lifetimes	0	1,892	289
Stockpile Responsiveness	0	385	2,347
Advanced Certification and Qualification	0	430	1,068
Engineering and Integrated Assessments	0	11,379	9,136
Inertial Confinement Fusion	31,000	31,000	31,000
Surety Technologies	0	5,152	2,493
Weapon Technology Development	0	15,717	5,849
Advanced Manufacturing Development	0	4,997	4,596
Weapons Technology and Manufacturing Maturation	0	25,866	12,938
Academic Programs	101,912	101,912	100,499
Advanced Simulation and Computing	206,476	206,476	170,885
Advanced Simulation & Computing	206,476	206,476	170,885
Stockpile Research, Technology, and Engineering	344,388	383,133	330,958
Infrastructure and Safety	341	21,726	0
Recapitalization	341	21,726	0
Operating	341	21,726	0
Infrastructure and Operations	341	21,726	0
STA Operations and Equipment	107,040	98,672	83,532
Program Direction - STA - Federal Support	123,357	123,677	129,730
Secure Transportation Asset	230,397	222,349	213,262
Operations and Maintenance - DNS	7,150	7,150	11,777

DEPARTMENT OF ENERGY
Laboratory Table
NNSA Albuquerque Complex FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Defense Nuclear Security (DNS)	7,150	7,150	11,777
Conversion	287	735	1,000
Nuclear Material Removal	0	3,850	1,000
Laboratory and Partnership Support	37,500	0	0
Material Management and Minimization	37,787	4,585	2,000
International Nuclear Security	11,644	2,295	11,971
Radiological Security	26,084	30,937	23,222
Nuclear Smuggling Detection and Deterrence	73,183	72,750	74,476
Global Material Security	110,911	105,982	109,669
Proliferation Detection R&D	17,500	15,000	19,675
Nuclear Detonation Detection	6,104	11,727	8,088
Forensics R&D	496	0	5,496
Nonproliferation Stewardship Program	14,601	10,100	14,921
Defense Nuclear Nonproliferation R&D	38,701	36,827	48,180
18-D-150, Surplus Plutonium Disposition Project, SRS	1,179	305	0
Nonproliferation Construction	1,179	305	0
Counterterrorism and Counterproliferation	307	0	0
Nuclear Counterterrorism & Incident Response	307	0	0
Legacy Contractor Pensions and Settlement Payments - DNN	14,348	14,348	55,708
Program Direction - National Nuclear Security Administration	6,868	3,596	7,484
Strategic Partnership Projects	8,918	8,918	4,305
Strategic Partnership Projects and Revenues	8,918	8,918	4,305
Enterprise Assessments	150	150	300
Office of Enterprise Assessments	150	150	300
Environment, Health, Safety & Security	1,000	1,000	1,000
Environment, Health, Safety, and Security	1,000	1,000	1,000
Program Direction - Defense Environmental Cleanup	8,281	8,281	8,572
Total NNSA Albuquerque Complex	1,326,627	1,393,933	1,257,761

Laboratory Table
NNSA Production Office (NPO) FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
NNSA Production Office (NPO)			<u> </u>
06-D-141, Uranium Processing Facility, Y-12	30,000	16,000	11,000
Secondary Capability Modernization	30,000	16,000	11,000
Production Modernization	30,000	16,000	11,000
Conversion	0	0	50,000
Material Disposition	29,025	5,000	25,146
Material Management and Minimization	29,025	5,000	75,146
Program Direction - National Nuclear Security Administration	27,073	25,927	32,122
Total NNSA Production Office (NPO)	86,098	46,927	118,268

Laboratory Table
Northeast Gasoline Supply Reserve (NGSR) - South Portland FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Northeast Gasoline Supply Reserve (NGSR) - South Portland			
Northeast Gasoline Supply Reserve	0	0	2,638
Total Northeast Gasoline Supply Reserve (NGSR) - South Portland	0	0	2,638

Laboratory Table
Northeast Gasoline Supply Reserve (NGSR) - Revere FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Northeast Gasoline Supply Reserve (NGSR) - Revere		•	
Northeast Gasoline Supply Reserve	(0	4,967
Total Northeast Gasoline Supply Reserve (NGSR) - Revere	() 0	4,967

Laboratory Table
Northeast Gasoline Supply Reserve (NGSR) - Raritan Bay FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Northeast Gasoline Supply Reserve (NGSR) - Raritan Bay			
Northeast Gasoline Supply Reserve	0	0	14,110
Total Northeast Gasoline Supply Reserve (NGSR) - Raritan Bay	0	0	14,110

DEPARTMENT OF ENERGY
Laboratory Table
Oak Ridge Institute for Science & Education FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Oak Ridge Institute for Science & Education			
Information Technology and Cyber Security	0	2,000	0
Nonproliferation & Arms Control	74	74	94
Counterterrorism and Counterproliferation	1,973	3,088	3,134
Nuclear Counterterrorism & Incident Response	1,973	3,088	3,134
Research - Advanced Scientific Computing Research	500	0	0
Advanced Scientific Computing Research	500	0	0
Research - Basic Energy Sciences	28	0	0
Basic Energy Sciences	28	0	0
Research - Biological & Environmental Research	778	778	1,348
Biological and Environmental Research	778	778	1,348
Research - High Energy Physics	170	0	0
High Energy Physics	170	0	0
Operations and Maintenance - Nuclear Physics	0	0	896
Nuclear Physics	0	0	896
Safeguards and Security - SC	2,425	2,425	3,663
Vehicle Technologies	350	350	600
Bioenergy Technologies	650	850	850
Hydrogen and Fuel Cells Technologies	1,000	900	1,000
Sustainable Transportation	2,000	2,100	2,450
Solar Energy Technologies	1,151	1,151	1,590
Geothermal Technologies	630	0	0
Renewable Power	1,781	1,151	1,590
Advanced Manufacturing	6,375	5,560	4,500
Building Technologies	2,300	1,825	2,500
Federal Energy Management Program (EERE)	599	200	0
Training and Technical Assistance (EERE)	100	400	0
State Energy Program Grants (EERE)	965	1,000	0
Weatherization and Intergovernmental Programs	1,065	1,400	0
Energy Efficiency	10,339	8,985	7,000
Strategic Programs	0	300	300
Corporate Support	0	300	300
Program Direction - CESER	750	0	0
University Scholarships and Fellowships	0	0	500
Idaho Sitewide Safeguards & Security (050)	0	100	0
Program Direction - Nuclear Energy	45	45	0
Environment, Health, Safety & Security	1,305	1,305	1,255
Environment, Health, Safety, and Security	1,305	1,305	1,255
Office of Technology Transitions (DA)	220	220	0
Total Oak Ridge Institute for Science & Education	22,388	22,571	22,230

DEPARTMENT OF ENERGY Laboratory Table Oak Ridge National Laboratory FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Oak Ridge National Laboratory			
Domestic Uranium Enrichment	37,849	34,415	62,760
Tritium and Domestic Uranium Enrichment	37,849	34,415	62,760
Capability Based Investments	0	532	0
Production Modernization	37,849	34,947	62,760
Advanced Simulation and Computing	150	150	831
Advanced Simulation & Computing	150	150	831
Stockpile Research, Technology, and Engineering	150	150	831
Safety and Environmental Operations	10,918	10,466	8,900
Operating	10,918	10,466	8,900
Infrastructure and Operations	10,918	10,466	8,900
Conversion	1,375	2,850	2,028
Nuclear Material Removal	6,827	7,275	5,945
Material Disposition	2,947	2,600	4,500
Laboratory and Partnership Support	2,595	0	0
Material Management and Minimization	13,744	12,725	12,473
International Nuclear Security	9,028	13,169	9,281
Radiological Security	18,552	14,786	16,516
Nuclear Smuggling Detection and Deterrence	22,581	11,239	22,980
Global Material Security	50,161	39,194	48,777
Nonproliferation & Arms Control	20,957	20,957	26,572
Proliferation Detection R&D	31,661	32,995	35,595
Nuclear Detonation Detection	433	180	445
Nonproliferation Fuels Development	7,000	1,227	0
Forensics R&D	3,673	3,450	3,673
Nonproliferation Stewardship Program	13,819	12,875	20,242
Defense Nuclear Nonproliferation R&D	56,586	50,727	59,955
NNSA Bioassurance Program	. 0	0	2,500
Counterterrorism and Counterproliferation	11,415	6,615	9,486
Nuclear Counterterrorism & Incident Response	11,415	6,615	9,486
Research - Advanced Scientific Computing Research	251,854	247,946	251,831
17-SC-20, SC Exascale Computing Project (ECP)	168,945	129,000	77,000
Advanced Scientific Computing Research	420,799	376,946	328,831
Research - Basic Energy Sciences	350,012	341,571	332,791
19-SC-14, Second Target Station (STS), ORNL	29,000	32,000	32,000
18-SC-11, Spallation Neutron Source Proton Power Upgrade (PPU), ORNL	52,000	17,000	17,000
Construction - Basic Energy Sciences	81,000	49,000	49,000
Basic Energy Sciences	431,012	390,571	381,791
Research - Biological & Environmental Research	86,641	86,341	86,682
Biological and Environmental Research	86,641	86,341	86,682
Research - Fusion Energy Sciences	27,947	31,947	23,258
14-SC-60, U.S. Contributions to ITER (U.S. ITER)	242,000	221,000	240,000
Construction - Fusion Energy Sciences	242,000	221,000	240,000
o,			
Fusion Energy Sciences	269,947	252,947	263,258
Research - High Energy Physics	1,253	990	1,410
High Energy Physics	1,253	990	1,410
Operations and Maintenance - Nuclear Physics	15,436	14,832	17,580
Nuclear Physics	15,436	14,832	17,580
20-SC-51, U.S. Stable Isotope Production and Research Center, ORNL	12,000	0	0

Laboratory Table
Oak Ridge National Laboratory FY 2023
(Dollars in Thousands)

Constituction—Isotope R&D and Production Enable Annalized (R) Required (R) Isotope R&D and Production 12.00 0.7 0.00 Bessearth - Acceleration R&D and Production 0.0 0.7 0.00 Oak Rigge Nuclear Operations 20.00 20.00 20.00 Das Signey Nuclear Operations 20.00 20.00 20.00 DS SC-74, Carl Resources Support Facility, ORNL (19-8C-74) 22.00 21.50 0.0 19 S SC-73, Translational Research Capability, ORNL 22.00 21.50 0.0 0.0 Science Laboratories Infrastructure 73.00 41.50 2.0 0.0		FY 2021	FY 2022	FY 2023
Estato p. Production				
Research - Acceierator R&D and Production 0 57 0 Acceierator R&D and Production 25 0 20 02 & Ridge Nuclear Operations 25,000 20 0 02 SS-72 - Craft Resources Support Facility, ORNL 25,000 1,000 1,000 13 SS-72 - Transfer Carpathing, ORNL 22,000 1,500 2,000 Construct aboratories Infrastructure 47,000 21,500 2,000 Science Laboratories Infrastructure 7,000 41,500 2,000 Verbick Technologies 33,970 37,600 2,930 Verbick Technologies 33,970 37,600 2,930 Horrosco and Fuel Cella Technologies 3,984 3,200 3,500 Statisticulo Timarportion 4,944 52,500 4,000 Water Event Technologies 5,89 4,94 52,500 4,000 State Energy Technologies 5,89 4,84 6,301 4,000 State Energy Technologies 3,29 4,84 6,301 4,000 Scale Energy Technologies 3,28	Construction - Isotope R&D and Production	12,000	0	0
Accelerator R&D and Production 60 57 0.00 Oak Region Nuclear Operations 20,000 20,000 0.00 20 > SC-74, Cardisalismon Research Capability, ORNL 20,000 1.15 0.00 19 S-57-7, Translatismon Research Capability, ORNL 20,000 21,500 0.00 Science Laboratories Infrastructure 47,000 41,500 20,000 Science Laboratories Infrastructure 70,000 41,500 20,000 Science Laboratories Infrastructure 33,970 37,000 22,310 Biose Energy Technologies 11,900 41,500 2,500 Biose Energy Technologies 11,900 42,100 42,100 Value Prover Technologies 15,944 25,00 5,997 Value Prover Technologies 1,964 2,50 5,997 Value Prover Technologies 8,28 8,48 8,23 Value Prover Technologies 8,28 8,48 8,23 Value Controller Security Prover Technologies 8,28 8,48 8,23 Value Energy Technologies 8,28 1,26	Isotope R&D and Production	12,000	0	0
Gals Rigles Nuclear Operations 25.00 20.00 20.00 20.5C-71, Craft Resources Support Facility, ORNL (19-SC-74) 22.00 21.00 0 19.5C-73, Translational Resourch Capability, ORNL 22.00 21.00 0 Construction - Science Laboratories Intrestructure 73.00 41.50 2.00 Safequant Capability, CRNL 33.06 30.168 38.10 Vulnido Tochnologies 33.06 31.00 2.20 Hydrogen and Fuel Cells Technologies 35.94 32.00 2.80 Solatinable Transportation 48.44 32.00 3.00 Statistable Transportation 48.44 32.00 3.00 Statistable Transportation 48.45 32.00 42.18 State Flower Technologies 6.02 6.02 9.00 Warst Flower Technologies 8.28 8.88 8.83 Southerney Technologies 8.28 8.88 8.83 Souther Flower Technologies 8.28 8.88 8.83 Souther Flower Technologies 8.28 8.28 8.88 <t< td=""><td>Research - Accelerator R&D and Production</td><td>0</td><td>57</td><td>0</td></t<>	Research - Accelerator R&D and Production	0	57	0
20.05.7-4. Coalt Resources Support Facility, ORNL. (19-80-74). 25,000 0	Accelerator R&D and Production	0	57	0
19 SC 73, Translational Research Capability, ORNI. 22,000 21,500 0 Construction - Source Laboratories Infrastructure 47,000 21,500 0 Safequant And Security - SC 30,166 30,166 30,100 Safequants and Security - SC 30,370 37,600 29,310 Biolenegy Technologies 11,900 11,300 2,250 Hydrogen and Fuel Cells Technologies 5,554 3,200 3,500 Sosiar Energy Technologies 652 662 90 Ware Prower Technologies 1,944 2,00 5,690 Ware Prower Technologies 1,954 2,20 5,690 Ware Prower Technologies 1,08 1,25 1,50 Advanced Manufacturing 40,329 2,800 1,50 Building Technologies 1,08 3,7606 19,00 Probert Energy Management Program (EERE) 400 1,00 0 Building Technologies 1,00 1,00 0 Training and Technologies 1,00 1,00 0 Technologies (EERE)<	Oak Ridge Nuclear Operations	26,000	20,000	20,000
19-SC-73, Translational Research Capability, ORNI. 22,000 21,500 0 Construction - Seience Laboratories Infrastructure 47,000 21,500 0 Science Laboratories Infrastructure 73,000 41,600 20,000 Saleguards and Security - SC 33,916 31,916 38,100 Verkiels Technologies 33,910 37,800 29,310 Bionnegy Technologies 11,900 11,300 2,225 Hydrogen and Fuel Cella Technologies 652 652 900 Wind Energy Technologies 652 652 900 Wind Energy Technologies 1,964 2,000 6,007 Water Power Technologies 1,964 2,930 6,507 Advanced Manufacturing 40,329 29,800 25,000 Building Technologies 1,848 37,966 19,000 Potental Energy Management Program (EERE) 400 1,000 0 Weatherization Assistance (EERE) 40 1,000 0 Weatherization Assistance (EERE) 40 1,000 0	20-SC-74, Craft Resources Support Facility, ORNL (19-SC-74)	25,000	0	0
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Mineral Sustainability 10,325 10,325 0 Carbon Dioxide Removal 900 900 0 Natural Gas Technologies Research 250 250 0 Strategic Petroleum Reserve (SPR) 570 570 570 LWR Sustainability 5,101 5,101 4,000		786	786	0
Carbon Dioxide Removal 900 900 0 Natural Gas Technologies Research 250 250 0 Strategic Petroleum Reserve (SPR) 570 570 570 LWR Sustainability 5,101 5,101 4,000	Advanced Coal Energy Systems & CCUS	1,664	1,664	0
Natural Gas Technologies Research 250 250 0 Strategic Petroleum Reserve (SPR) 570 570 570 LWR Sustainability 5,101 5,101 4,000	Mineral Sustainability	10,325	10,325	0
Strategic Petroleum Reserve (SPR) 570 570 570 LWR Sustainability 5,101 5,101 4,000	Carbon Dioxide Removal	900	900	0
LWR Sustainability 5,101 5,101 4,000	Natural Gas Technologies Research	250	250	0
	Strategic Petroleum Reserve (SPR)	570	570	570
Advanced Reactor Technologies 2,835 2,835 5,500	LWR Sustainability	5,101	5,101	4,000
	Advanced Reactor Technologies	2,835	2,835	5,500

Laboratory Table
Oak Ridge National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Reactor Concepts RD&D	7,936	7,936	9,500
Materials Recovery and Waste Form Development	942	942	1,442
Accident Tolerant Fuels	6,707	6,707	7,304
Triso Fuel and Graphite Qualification	1,200	3,000	2,200
Fuel Cycle Laboratory R&D	1,500	1,500	3,495
HALEU Availability	0	0	5,745
Used Nuclear Fuel Disposition R&D	8,250	8,250	5,725
Integrated Waste Management System	4,000	4,000	6,000
Fuel Cycle Research & Development	22,599	24,399	31,911
Crosscutting Technology Development	2,069	2,069	3,000
Joint Modeling and Simulation Program	4,210	4,210	3,900
Transformational Challenge Reactor	18,098	18,098	0
Nuclear Energy Enabling Technologies	24,377	24,377	6,900
National Reactor Innovation Center	157	157	1,000
Risk Reduction for Future Demonstration	0	0	2,000
Regulatory Development	2,400	2,400	3,450
Advanced Reactors Safeguards	475	475	500
Advanced Reactors Demonstration Program	3,032	3,032	6,950
ORNL Nuclear Facilities O&M	19,926	19,926	0
Infrastructure	19,926	19,926	0
International Nuclear Energy Cooperation	0	0	250
Program Direction - Nuclear Energy	338	338	0
Strategic Partnership Projects	12,227	12,227	9,750
Strategic Partnership Projects and Revenues	12,227	12,227	9,750
Environment, Health, Safety & Security	1,035	1,035	1,035
Environment, Health, Safety, and Security	1,035	1,035	1,035
Office of Technology Transitions (DA)	55	55	0
Advanced Technology Vehicle Manufacturing Loan Program	50	0	0
U233 Disposition Program	55,000	55,000	47,628
OR Nuclear Facility D&D	254,132	254,132	334,221
Oak Ridge (OR)	309,132	309,132	381,849
Total Oak Ridge National Laboratory	2,129,459	1,939,492	1,982,959

Laboratory Table
Oak Ridge National Laboratory Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Oak Ridge National Laboratory Site Office			
Program Direction - SC	4,757	4,757	6,955
Advanced SMR R&D	395	395	200
Reactor Concepts RD&D	395	395	200
Total Oak Ridge National Laboratory Site Office	5,152	5,152	7,155

Laboratory Table
Oak Ridge Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Oak Ridge Office			
Civilian Nuclear Enrichment	40,000	0	0
Fuel Cycle Research & Development	40,000	0	0
Environment, Health, Safety & Security	2,795	2,795	2,795
Environment, Health, Safety, and Security	2,795	2,795	2,795
Program Direction - Defense Environmental Cleanup	15,026	15,026	17,713
Total Oak Ridge Office	57,821	17,821	20,508

Laboratory Table
Oak Ridge Reservation FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Oak Ridge Reservation			- ,
OR Cleanup Disposition	112,471	112,471	62,000
Oak Ridge (OR)	112,471	112,471	62,000
Total Oak Ridge Reservation	112,471	112,471	62,000

Laboratory Table
Oak Ridge Reservation (Off-Site) FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Oak Ridge Reservation (Off-Site)			
OR Community and Regulatory Support	5,900	5,900	5,300
Oak Ridge (OR)	5,900	5,900	5,300
Total Oak Ridge Reservation (Off-Site)	5,900	5,900	5,300

Laboratory Table
Office of River Protection FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Office of River Protection			
Waste Treatment Immobilization Plant Commissioning	50,000	50,000	462,700
Rad Liquid Tank Waste Stabilization and Disposition	784,000	784,000	801,100
23-D-403, Hanford 200 West Area Tank Farms Risk Management Project	0	0	4,408
18-D-16 Waste treatment and immobilization plant - LBL/Direct Feed LAW	786,000	786,000	0
01-D-16D High-Level Waste Facility	25,000	25,000	316,200
01-D-16E Pretreatment Facility	0	0	20,000
Construction - Office of River Protection	811,000	811,000	340,608
Office of River Protection (ORP)	1,645,000	1,645,000	1,604,408
Program Direction - Defense Environmental Cleanup	23,205	23,205	26,909
Total Office of River Protection	1,668,205	1,668,205	1,631,317

DEPARTMENT OF ENERGY
Laboratory Table
Office of Scientific & Technical Information FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Office of Scientific & Technical Information			
Information Technology and Cyber Security	407	319	539
Nuclear Detonation Detection	70	14	72
Defense Nuclear Nonproliferation R&D	70	14	72
Research - Basic Energy Sciences	161	0	0
Basic Energy Sciences	161	0	0
Research - Biological & Environmental Research	285	285	0
Biological and Environmental Research	285	285	0
Operations and Maintenance - Nuclear Physics	0	143	141
Nuclear Physics	0	143	141
Facilities and Infrastructure (SLI)	200	200	200
Science Laboratories Infrastructure	200	200	200
Safeguards and Security - SC	759	759	2,201
Program Direction - SC	10,477	10,477	12,381
Environment, Health, Safety & Security	300	300	300
Environment, Health, Safety, and Security	300	300	300
Total Office of Scientific & Technical Information	12,659	12,497	15,834

Laboratory Table
Pacific Northwest National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Pacific Northwest National Laboratory			
Nuclear Enterprise Assurance	0	0	3,230
Stockpile Management	0	0	3,230
Uranium Modernization	1,160	1,160	1,500
Depleted Uranium Modernization	225	400	500
Lithium Modernization	550	550	1,000
Secondary Capability Modernization	1,935	2,110	3,000
Tritium Sustainment and Modernization	56,186	64,451	79,840
Tritium and Domestic Uranium Enrichment	56,186	64,451	79,840
Non-Nuclear Capability Modernization	630	777	770
Total, Non-Nuclear Capability Modernization	630	777	770
Production Modernization	58,751	67,338	83,610
Advanced Manufacturing Development	0	900	872
Weapons Technology and Manufacturing Maturation	0	900	872
Stockpile Research, Technology, and Engineering	0	900	872
Safety and Environmental Operations	7,496	5,584	3,595
Operating	7,496	5,584	3,595
Infrastructure and Operations	7,496	5,584	3,595
Conversion	27,281	20,115	15,494
Nuclear Material Removal	175	675	200
Material Disposition	2,900	3,600	1,986
Laboratory and Partnership Support	462	0	0
Material Management and Minimization	30,818	24,390	17,680
International Nuclear Security	36,389	14,680	37,411
Radiological Security	73,644	100,586	65,564
Nuclear Smuggling Detection and Deterrence	50,491	61,236	51,384
Global Material Security	160,524	176,502	154,359
Nonproliferation & Arms Control	18,781	18,781	23,814
Proliferation Detection R&D	23,637	22,030	26,574
Nuclear Detonation Detection	19,166	16,095	19,718
Forensics R&D	4,746	4,438	4,746
Nonproliferation Stewardship Program	450	350	9,962
Defense Nuclear Nonproliferation R&D	47,999	42.913	61,000
NNSA Bioassurance Program	0	0	2,500
18-D-150, Surplus Plutonium Disposition Project, SRS	3,182	2,700	0
Nonproliferation Construction	3,182	2,700	0
Emergency Operations	960	1,326	2,376
Counterterrorism and Counterproliferation	5,954	4,711	4,350
Nuclear Counterterrorism & Incident Response	6,914	6,037	6,726
Program Direction - National Nuclear Security Administration	1,382	1,500	1,500
Research - Advanced Scientific Computing Research	4,635	600	3,664
Advanced Scientific Computing Research	4,635	600	3,664
Research - Basic Energy Sciences	23,694	23,694	23,694
Basic Energy Sciences	23,694	23,694	23,694
Research - Biological & Environmental Research	113,325	121,325	137,632
Biological and Environmental Research	113,325	121,325	137,632
Research - Fusion Energy Sciences	723	723	1,200
	723	723	1,200
Fusion Energy Sciences			
Research - High Energy Physics	1,995	1,300	1,550

Laboratory Table
Pacific Northwest National Laboratory FY 2023
(Dollars in Thousands)

Image: Physics Enacted Annualised CR Recount Cells and Maintenance - Nuclear Physics 1,000 </th <th></th> <th>FY 2021</th> <th>FY 2022</th> <th>FY 2023</th>		FY 2021	FY 2022	FY 2023
Department				
Nobel Procession 0 1518 25.00 Fucilities and Infrinstructure (SLI) 2000 0.00 0.00 Construction - Science Laboratories Infrinstructure 22,000 0.00 0.00 Science Laboratories Infristructure 23,000 1.00 0.00 Safequación infrastructures 23,000 1.00 0.00 Safequación infrastructures 13,512 3.15,12 1.95.00 Subreitary Technologies 17,200 17,200 1.00 Discrigory Technologies 5,347 5,347 5,347 Sobre Energy Technologies 5,147 5,93 17,430 Wind Energy Technologies 5,147 5,93 17,430 Wind Energy Technologies 1,107 5,93 17,430 Wind Energy Technologies 1,107 5,93 10,73 Coordinant Technologies 1,107 5,93 3,90 Mind Energy Pedrologies 1,107 2,93 3,90 Pederal Energy Management Program (EERE) 1,15 2,50 3,90 Sublidan Technologies <td>High Energy Physics</td> <td>1,995</td> <td>1,300</td> <td>1,550</td>	High Energy Physics	1,995	1,300	1,550
Pacilitaria and Infrastructure (EUI)	Operations and Maintenance - Nuclear Physics	0	818	861
18-55-7f, Energy Sciences Capability, PNNL 23,000 0 0 Construction - Science Laborations Infrastructura 23,000 1,00 5,40 Sateguants and Secutiry - SC 13,512 13,512 13,512 18,981 Vahidar Technologies 16,314 20,000 18,000 18,000 Hydrogen and Fuel Cults Tuchnologies 17,800 17,800 14,100 Solar Energy Technologies 5,347 5,347 5,347 Solar Energy Technologies 6,107 5,93 17,403 Water Power Technologies 6,107 5,93 17,403 Water Power Technologies 14,166 19,992 16,91 Renewable Power 25,340 30,552 16,71 Advanced Manufacturing 1,779 5,0 0 Renewable Power 25,340 35,0 35,00 Renewable Fower 25,30 35,0 35,0 Renewable Fower 25,30 35,0 36,0 Building Technologies 23,40 35,0 36,0 Renewable Fower<	Nuclear Physics	0	818	861
Construction - Science Laboratorine Infrastructure 23,000 1,500 5,400 Science Laboratorine Infrastructure 23,000 1,500 5,400 Stefuguards and Security - SC 15,512 1,5152 1,930 Vehicle Technologies 16,314 22,525 18,600 Dydrogen and Fuel Cells Technologies 6,855 5,500 6,500 Sustainable Transportation 40,909 2,856 11,100 Sustainable Transportation 40,909 2,856 41,110 Sustainable Transportation 40,909 2,856 41,110 Sustainable Transportation 40,100 40,100 40,100 Washer Power Technologies 40,100 40,100 40,100 Removable Power 28,340 30,952 40,700 Removable Power 28,342 30,800 40,000	Facilities and Infrastructure (SLI)	0	1,600	5,400
Schleguards and Security - SC 13.512 1.5152 1.5152 1.9568 Schleguards and Security - SC 1.6144 2.9568 1.8568	18-SC-71, Energy Sciences Capability, PNNL	23,000	0	0
Safesquards and Security - SC 13,512 13,512 13,512 16,868 Vehicit Enchologies 16,314 22,526 16,600 Hydrogen and Fuel Cells Technologies 6,855 5,800 6,000 Sublatifiable Transportation 40,889 25,800 41,165 Sublar Enerty Technologies 5,347 5,347 5,347 3,347 4,000 Wind Energy Technologies 16,107 9,313 17,483 4,000 4,000 6 6,000 6 7,000 6 7,000 6 7,000 6 7,000 7,000 6 7,000 6 7,000	Construction - Science Laboratories Infrastructure	23,000	0	0
Welnick Technologies 16,344 29,260 18,686 Bionergy Technologies 6,755 5,000 6,000 Sustainable Ternsportation 40,909 52,800 41,165 Sustainable Ternsportation 5,347 5,347 3,400 Wind Energy Technologies 14,166 19,092 15,911 Water Power Technologies 10,000 30,000 10 Receivable Power 25,000 30,000 40 Receivable Power 25,000 30,000 40 Receivable Power 25,000 30,000 6 Receivable Power 25,000 30,000 6 Receivable Power 25,000 30,000 6 Residency Program Grants (EERE) 4,157 2,000 0 State Energy Program Grants (EERE) 4,157 2,000 0 State Energy Program Grants (EERE) 4,157 2,000 0 State Energy Program Grants (EERE) 4,300 30,000 0 State Energy Program Grants (EERE) 4,300 30,000	Science Laboratories Infrastructure	23,000	1,600	5,400
Bioenergy Technologies 17,800 15,000 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,116 5,347 6,347 7,340 7,340 7,340 7,340 7,340 7,340 7,340 7,340 1,416 1,500 1,416 1,500 1,416 1,500 1,5	Safeguards and Security - SC	13,512	13,512	19,958
Hybrogen and Fuel Cells Technologies 6,855 5,800 4,1080 Sustainable Transportation 4,0808 52,800 41,168 Solar Energy Technologies 5,417 5,313 17,488 Water Power Technologies 10,101 1,982 15,911 Geothermal Technologies 70 0 0 Renewable Power 25,340 30,952 40,784 Advanced Manufacturing 1,177 0 0 Building Technologies 23,406 35,670 5,000 Foderal Energy Management Program (EERE) 41,57 2,050 0 State Energy Program Grants (EERE) 41,57 2,050 0 Weatherization and intergovernmental Programs 30 0 0 Energy Efficiency 29,42 37,820 25,000 Strategie Program Grants (EERE) 30 0 0 Carporate Support 30 0 0 Tamasition Reliability and Resilience 10,103 0 0 Energy Delivery Grid Operations Technology 20	Vehicle Technologies	16,314	29,260	18,665
Substantable Transportation 40,000 52,000 41,105 Solite Energy Technologies 6,167 5,347 7,340 Wind Energy Technologies 11,106 10,000 10,000 Water Power Technologies 11,100 0 0 Renewable Power 62,000 0 0 Advanced Manufacturing 1,770 0 0 Building Technologies 23,400 3,500 0 Foderal Energy Management Program (EERE) 0 10 0 State Energy Program Grams (EERE) 0 10 0 Weatherization and Intergovernmental Programs 20,300 30 2,000 Energy Efficiency 29,42 37,800 36 Strategic Program 30 30 2,000 Transmission Reliability and Resilience 10,100 0 6,000 Energy Elicency 10 0 0 6,000 Energy Storige 13,400 0 0 0 Energy Elicency Storige 19,400 0	Bioenergy Technologies	17,800	17,800	16,000
Solar Energy Technologies 5,347 5,347 7,388 Wind Energy Technologies 6,107 5,913 17,493 Watter Power Technologies 16,107 16,902 15,911 Geothermal Technologies 700 0 0 Renewable Power 28,340 30,952 40,784 Advanced Manufacturing 17,79 0 0 Building Technologies 23,406 35,670 35,600 Building Technologies 23,406 35,670 35,600 Building Technologies 23,406 35,670 35,600 State Energy Porgram Grants (EERE) 4,157 2,600 36,000 Weatherization and Intergovermental Program (EERE) 29,342 37,220 35,600 State Energy Program Grants (EERE) 29,342 37,220 35,600 State Energy Program Grants (EERE) 10,10 0 0 2,000 Weatherization and Intergovermental Program (EERE) 10,10 0 0 2,000 0 2,000 0 0 2,000 0 0<	Hydrogen and Fuel Cells Technologies	6,855	5,800	6,500
Wind Energy Technologies 6,107 5,913 17,488 Water Power Technologies 11,168 19,692 15,111 Geachement Technologies 700 0 0 Renewable Power 26,34 30,952 40,788 Advanced Manufacturing 1,779 0 0 Building Technologies 33,40 35,60 35,60 Building Technologies 4,167 2,606 0 State Energy Program Certes (EERE) 0 0 0 0 Weatherization and Intergovernmental Programs 30 0 <td>Sustainable Transportation</td> <td>40,969</td> <td>52,860</td> <td>41,165</td>	Sustainable Transportation	40,969	52,860	41,165
Water Power Technologies 14,186 19,692 15,911 Geothermal Technologies 700 0 0 Renewable Power 25,444 30,952 40,784 Advanced Manufacturing 1,779 0.0 35,600 Bullding Technologies 23,406 35,670 35,600 Federal Energy Management Program (EERE) 0 100 0 State Energy Program Grants (EERE) 0 100 0 Meatherization and Intergovernmental Programs 0 100 0 Energy Efficiency 23,422 37,820 35,600 Strate-gic Programs 350 300 2,000 Copprate Surport 350 300 2,000 Transmission Reliability and Resilience 10,103 0 9 Energy Elvey Grid Operations Technology 0 0 9 Resilient Distribution Systems 17,016 0 2,000 Resilient Distribution Systems 17,016 0 2,000 Denergy Storage R&D 13,00 0 0<	Solar Energy Technologies	5,347	5,347	7,380
Geothermal Technologies 700 0 0 Renewable Power 28,340 30,952 40,784 Advanced Manufacturing 1,779 0 0 0 Building Technologies 23,466 35,670 35,600 Federal Energy Management Program (EERE) 4,157 2,050 0 State Energy Program Grants (EERE) 4,157 2,050 0 Weatherization and Intergovermental Programs 0 100 0 Energy Efficiency 29,342 37,820 35,600 Strategie Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 6,850 Energy Delivery Grid Operations Technology 0 0 0 9,000 Energy Storage Rab 11,010 0 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 12,000 0 0 2,000 0 0 0 0 0 0 0 <td>Wind Energy Technologies</td> <td>6,107</td> <td>5,913</td> <td>17,493</td>	Wind Energy Technologies	6,107	5,913	17,493
Renewable Power 26.340 30,952 40.78 Advanced Manufacturing 1.779 0 0 Building Technologies 23,408 35,670 35,600 Federal Energy Management Program (EERE) 41,577 2,050 0 State Energy Program Grants (EERE) 0 100 0 Weatherization and Intergovernmental Programs 0 100 0 Energy Efficiency 29,342 37,820 35,600 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Energy Delivery Grid Operations Technology 0 0 0 6,850 Resillent Distribution Systems 11,016 0 2,000 16,500 Energy Storage Rab 19,400 0 2,300 2,000 1,000 2,300 1,000 2,300 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	Water Power Technologies	14,186	19,692	15,911
Advanced Manufacturing 1,778 0 0 Buliding Technologies 23,406 35,670 35,000 Federal Energy Management Program (EERE) 10 100 0 State Energy Program Grants (EERE) 0 100 0 Weatherization and Intergovernmental Programs 20 100 0 Energy Elficiency 29,342 37,820 35,000 Strategic Programs 350 300 2,000 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 8,850 Energy Delivery Grid Operations Technology 0 0 9,000 Resilient Distribution Systems 17,016 0 2,000 Energy Storage R&D 19,40 0 2,000 Energy Storage Launchpad 22,968 23,00 2,300 Construction - Energy Storage 22,968 23,00 2,300 Energy Storage 140 0 0 <td>Geothermal Technologies</td> <td>700</td> <td>0</td> <td>0</td>	Geothermal Technologies	700	0	0
Building Technologies 23,468 35,670 35,600 Federal Energy Management Program (EERE) 4,157 2,050 0 State Energy Program Grants (EERE) 4,157 2,050 0 Weatherization and Intergovermental Programs 0 100 0 Energy Efficiency 29,342 37,820 35,600 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Energy Delivery Grid Operations Technology 0 0 6,850 Energy Delivery Grid Operations Technology 0 0 6,850 Resilient 1 Sistribution Systems 17,016 0 16,000 Resilient 2 Secure Utility Communication Network (SecureNet) 0 0 0 23,800 Energy Storage R&D 19,400 0 0 0 23,800 0 0 0 23,800 0 0 0 23,800 0 0 0 0 0 0 0 0 0 0 0 0 <td>Renewable Power</td> <td>26,340</td> <td>30,952</td> <td>40,784</td>	Renewable Power	26,340	30,952	40,784
Federal Energy Management Program (EERE) 4,157 2,050 0 State Energy Program Grants (EERE) 0 100 0 Weatherization and Intergovermental Programs 0 100 0 Energy Efficiency 29,342 37,802 35,000 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 6,855 Energy Delivery Grid Operations Technology 0 0 9,500 Resilient Distribution Systems 17,016 0 16,850 Cyber Resilient & Secure Utility Communication Network (SecureNet) 19,40 0 2,300 Energy Storage R&D 19,40 0 2,300 0 Energy Storage R&D 19,40 0 0 2,300 0 Energy Storage R&D 19,40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<	Advanced Manufacturing	1,779	0	0
State Energy Program Grants (EERE) 0 100 0 Washerization and Intergovermental Programs 0 100 0 Energy Efficiency 29,342 37,802 3,600 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 8,550 Energy Delivery Grid Operations Technology 10 0 9,500 Resilient Distribution Systems 17,016 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 0 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 10 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 10 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 10 0 2,000 Construction Energy Storage 22,968 23,000 0 2,300 0 Energy Storage & Control Carbor Resilience and Advanced Components 14 0 0	Building Technologies	23,406	35,670	35,600
Weatherization and Intergovermental Programs 0 100 0 Energy Efficiency 29,342 37,820 35,600 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 6,850 Energy Delivery Grid Operations Technology 0 0 9,500 Resilient Distribution Systems 17,016 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 19,400 0 2,000 Energy Storage R&D 19,400 0 23,800 20-OE-100 Grid Storage Launchpad 22,968 23,000 0 20-OE-100 Grid Storage Launchpad 22,968 23,000 0 Energy Storage 42,368 23,000 0 Transformer Resilience and Advanced Components 14 0 1,000 Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 11,000 11,300 1	Federal Energy Management Program (EERE)	4,157	2,050	0
Energy Efficiency 29,342 37,820 36,00 Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 6,850 Energy Delivery Grid Operations Technology 0 0 9,800 Resilient Distribution Systems 17,016 0 16,800 Cyber Resilient & Secure Utility Communication Network (SecureNet) 0 0 0 2,000 Energy Storage R&D 19,400 0 0 2,000 Energy Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 22,968 23,000 0 Energy Storage 42,368 23,000 0 Transformer Resilience and Advanced Components 140 0 0 0 Transformer Resilience and Advanced Components 11,000 11,000 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0<	State Energy Program Grants (EERE)	0	100	0
Strategic Programs 350 300 2,000 Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 6,850 Energy Delivery Grid Operations Technology 0 0 9,500 Resilient Distribution Systems 17,016 0 2,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 0 0 2,000 Energy Storage R&D 19,400 0 0 23,800 2-00E-100 Grid Storage Launchpad 22,968 23,000 0 0 2-00E-100 Grid Storage Launchpad 22,968 23,000 0	Weatherization and Intergovernmental Programs	0	100	0
Corporate Support 350 300 2,000 Transmission Reliability and Resilience 10,103 0 6,850 Energy Delivery Grid Operations Technology 0 0 9,500 Resilient Distribution Systems 17,016 0 0 20,000 Cyber Resilient & Secure Utility Communication Network (SecureNet) 19,400 0 23,800 Energy Storage R&D 19,400 0 0 0 Energy Storage Launchpad 22,968 23,000 0 0 Construction - Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transmission Permitting and Technical Assistance 280 0 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 0 Response and Restoration 10 0 0 0 0 Response and Restoration Sharing, Partnerships and Exercises 2,636 2,636 0 0 Corbon Storage 1,901 1,901	Energy Efficiency	29,342	37,820	35,600
Transmission Reliability and Resilience 10,103 0 6,850 Energy Delivery Grid Operations Technology 0 0 9,500 Resilient Distribution Systems 17,016 0 16,500 Cyber Resilient & Secure Utility Communication Network (SecureNet) 0 0 2,000 Energy Storage R&D 19,400 0 23,800 20-0E-100 Grid Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 42,368 23,000 0 Energy Storage 42,368 23,000 20,000 Transformer Resilience and Advanced Components 140 0 1,000 Transmission Pemitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 11,000 0 Infrastructure Security and Energy Restoration 11,000 11,300 0 Response and Restoration 0 0 6,000 Response and Restoration 2,633 2,636 2,630 Carbon Storage 1,901 1,901 0	Strategic Programs	350	300	2,000
Energy Delivery Grid Operations Technology 0 9,500 Resilient Distribution Systems 17,016 0 16,500 Cybor Resilient & Secure Utility Communication Network (SecureNet) 0 0 2,000 Energy Storage R&D 19,400 0 23,800 20-DE-100 Grid Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 42,368 23,000 23,800 Energy Storage 42,368 23,000 20,800 Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transformer Resilience and Advanced Components 140 0 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 1 0 0 0 0 Response and Restoration 0 0 6,000 0 6,000 0 0 6,000 0 0 0	Corporate Support	350	300	2,000
Resilient Distribution Systems 17,016 0 16,500 Cyber Resilient & Secure Utility Communication Network (SecureNet) 0 0 2,000 Energy Storage R&D 19,400 0 23,800 20-0E-100 Grid Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 42,368 23,000 23,800 Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 0 1,000 Transformer Resilience and Advanced Components 140 0 0 0 Transformer Resilience and Advanced Components 140 0 0 0 Transformer Resilience and Advanced Components 140 0 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 0 0 Risk Management Technology and Tools 11,300 11,300 11,300 1 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	Transmission Reliability and Resilience	10,103	0	6,850
Cyber Resilient & Secure Utility Communication Network (SecureNet) 0 0 2,000 Energy Storage R&D 19,400 0 23,800 20-OE-100 Grid Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 22,968 23,000 0 Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transformer Resilience and Advanced Components 140 0 0 Transformer Resilience and Advanced Components 140 0 0 Transmission Permitting and Technical Assistance 280 0 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 6 6 0 0 6 6 0 0 0 6 0 0 0 0	Energy Delivery Grid Operations Technology	0	0	9,500
Energy Storage R&D 19,400 0 23,800 20-OE-100 Grid Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 22,968 23,000 0 Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transformer Resilience and Advanced Components 140 0 0 Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Infrastructure Security and Energy Restoration 11,300 11,300 0 0 Risk Management Technology and Tools 0 0 0 1,300 0 <td>Resilient Distribution Systems</td> <td>17,016</td> <td>0</td> <td>16,500</td>	Resilient Distribution Systems	17,016	0	16,500
20-DE-100 Grid Storage Launchpad 22,968 23,000 0 Construction - Energy Storage 22,968 23,000 0 Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Infrastructure Security and Energy Restoration 11,300 11,300 0 Risk Management Technology and Tools 0 0 0 0 Response and Restoration 0 0 0 6,000 Response and Restoration 0 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 6,000 6,000 Carbon Capture 2,636 2,636 0 0 6 0 Carbon Storage 1,901 1,901 0 0 0 0 0 0 0 0 0 0 0	Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	2,000
Construction - Energy Storage 22,968 23,000 23,800 Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Cybersecurity and Energy Restoration 11,300 11,300 0 Risk Management Technology and Tools 0 0 0 0 Response and Restoration 0 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 0 6,000 Carbon Capture 2,636 2,636 0 0 6,600 Carbon Storage 1,901 1,901 0 0 0 0 6,600 0 0 6,600 0 0 6,600 0 0 6,600 0 0 0 6,600 0 0 0 0 0 0 0 0 <td>Energy Storage R&D</td> <td>19,400</td> <td>0</td> <td>23,800</td>	Energy Storage R&D	19,400	0	23,800
Energy Storage 42,368 23,000 23,800 Transformer Resilience and Advanced Components 140 0 1,000 Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Infrastructure Security and Energy Restoration 11,300 11,300 0 Risk Management Technology and Tools 0 0 0 1,300 Response and Restoration 0 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 0 6,600 Carbon Capture 2,636 2,636 0 0 0 6,600 CCS and Power Systems 4,537 4,537 0	20-OE-100 Grid Storage Launchpad	22,968	23,000	0
Transformer Resilience and Advanced Components 140 0 1,000 Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Infrastructure Security and Energy Restoration 11,300 11,300 1,300 Risk Management Technology and Tools 0 0 6,000 Response and Restoration 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 6,600 Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 256 256 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 50 500 0 Natural Gas Technologies Research 1,000 1,000 0	Construction - Energy Storage	22,968	23,000	0
Transmission Permitting and Technical Assistance 280 0 0 Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Infrastructure Security and Energy Restoration 11,300 11,300 0 Risk Management Technology and Tools 0 0 6,000 Response and Restoration 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 6,600 Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 256 256 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 3,075	Energy Storage	42,368	23,000	23,800
Cybersecurity for Energy Delivery Systems 1,000 1,000 0 Infrastructure Security and Energy Restoration 11,300 11,300 0 Risk Management Technology and Tools 0 0 0 1,300 Response and Restoration 0 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 6,600 Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 1,000 3,075	Transformer Resilience and Advanced Components	140	0	1,000
Infrastructure Security and Energy Restoration 11,300 11,300 11,300 13,000 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 1,300 6,600 6,600 6,600 0 6,600 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 6,600 0 0 6,600 0 0 6,600 0<	Transmission Permitting and Technical Assistance	280	0	0
Risk Management Technology and Tools 0 1,300 Response and Restoration 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 6,600 Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 1 Advanced Reactor Technologies 780 780 3,075	Cybersecurity for Energy Delivery Systems	1,000	1,000	0
Response and Restoration 0 0 6,000 Information Sharing, Partnerships and Exercises 0 0 6,600 Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 3,075 3,075	Infrastructure Security and Energy Restoration	11,300	11,300	0
Information Sharing, Partnerships and Exercises 0 0 6,600 Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 780 3,075	Risk Management Technology and Tools	0	0	1,300
Carbon Capture 2,636 2,636 0 Carbon Storage 1,901 1,901 0 CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 3,075	Response and Restoration	0	0	6,000
Carbon Storage 1,901 1,901 0 CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 3,075	Information Sharing, Partnerships and Exercises	0	0	6,600
CCS and Power Systems 4,537 4,537 0 Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 3,075	Carbon Capture	2,636	2,636	0
Advanced Energy Systems 256 256 0 Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 780 3,075	Carbon Storage	1,901	1,901	0
Cross Cutting Research 456 456 0 Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 780 3,075	CCS and Power Systems	4,537	4,537	0
Advanced Coal Energy Systems & CCUS 712 712 0 Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 780 3,075	Advanced Energy Systems	256	256	0
Advanced Oil and Gas Prod Tech (Unconv FE) 500 500 0 Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 780 3,075	Cross Cutting Research	456	456	0
Natural Gas Technologies Research 1,000 1,000 0 Advanced Reactor Technologies 780 780 3,075	Advanced Coal Energy Systems & CCUS	712	712	0
Advanced Reactor Technologies 780 780 3,075	Advanced Oil and Gas Prod Tech (Unconv FE)	500	500	0
	Natural Gas Technologies Research	1,000	1,000	0
Reactor Concepts RD&D 780 780 3,075	Advanced Reactor Technologies	780	780	3,075
	Reactor Concepts RD&D	780	780	3,075

Laboratory Table
Pacific Northwest National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Mining, Conversion, and Transportation	450	0	0
Materials Recovery and Waste Form Development	581	581	889
Accident Tolerant Fuels	85	85	93
Fuel Cycle Laboratory R&D	1,000	1,000	2,330
HALEU Availability	0	0	5,745
Used Nuclear Fuel Disposition R&D	7,825	7,825	7,825
Integrated Waste Management System	3,500	3,500	16,000
Fuel Cycle Research & Development	13,441	12,991	32,882
Crosscutting Technology Development	494	494	500
Nuclear Science User Facilities	229	229	350
Nuclear Energy Enabling Technologies	723	723	850
National Reactor Innovation Center	230	230	1,000
Regulatory Development	385	385	400
Advanced Reactors Safeguards	260	260	300
Advanced Reactors Demonstration Program	875	875	1,700
International Nuclear Energy Cooperation	0	0	250
Program Direction - Nuclear Energy	275	275	0
Interim Storage	6,000	6,000	0
Strategic Partnership Projects	0	0	8,645
Strategic Partnership Projects and Revenues	0	0	8,645
Environment, Health, Safety & Security	1,905	1,905	1,905
Environment, Health, Safety, and Security	1,905	1,905	1,905
Office of Technology Transitions (DA)	175	175	0
Grid Planning & Development	0	0	5,500
Grid Technical Assistance	0	0	2,000
Total Pacific Northwest National Laboratory	726,862	697,922	802,751

Laboratory Table
Pacific Northwest Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
ic Northwest Site Office			
n Direction - SC	5,066	5,066	6,058
fic Northwest Site Office	5,066	5,066	6,058

DEPARTMENT OF ENERGY
Laboratory Table
Paducah Gaseous Diffusion Plant FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Paducah Gaseous Diffusion Plant			
Program Direction - Defense Environmental Cleanup	14,357	14,357	15,015
Safeguards and Security - Defense Environmental Cleanup	16,206	16,206	16,206
Gaseous Diffusion Plants	57,580	57,580	63,421
Paducah Gaseous Diffusion Plant (D&D Fund)	240,000	240,000	199,269
Pension and Community and Regulatory Support	2,099	2,099	2,782
Total Paducah Gaseous Diffusion Plant	330,242	330,242	296,693

Laboratory Table
Pantex Plant FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Pantex Plant			
B61-12 LEP	54,500	62,445	80,731
W88 ALT 370	53,918	49,776	47,730
W80-4 LEP	41,500	41,450	79,050
W87-1 Modification Program	12,000	12,941	19,588
W93 Program	500	500	2,000
Stockpile Major Modernization	162,418	167,112	229,099
Stockpile Sustainment	107,925	102,357	117,994
Weapons Dismantlement and Disposition	38,249	26,601	26,370
Production Operations	120,093	121,227	122,023
Nuclear Enterprise Assurance	0	0	2,760
Stockpile Management	428,685	417,297	498,246
High Explosives & Energetics	17,125	15,000	20,000
HESE OPCs	3,703	3,750	0
21-D-510, HE Synthesis, Formulation, and Production, PX	28,000	30,000	108,000
15-D-301, HE Science & Engineering Facility, PX	43,000	43,000	20,000
HE & Energistics	91,828	91,750	148,000
Primary Capability Modernization	91,828	91,750	148,000
Non-Nuclear Capability Modernization	0	60	65
Total, Non-Nuclear Capability Modernization	0	60	65
Capability Based Investments	9,080	7,170	10,200
Production Modernization	100,908	98,980	158,265
Aging and Lifetimes	2,554	2,998	2,500
Stockpile Responsiveness	4,265	3,975	3,793
Advanced Certification and Qualification	1,500	1,400	1,330
Engineering and Integrated Assessments	8,319	8,373	7,623
Surety Technologies	18	25	0
Weapon Technology Development	251	1,200	1,191
Advanced Manufacturing Development	3,073	3,200	2,000
Weapons Technology and Manufacturing Maturation	3,342	4,425	3,191
Stockpile Research, Technology, and Engineering	11,661	12,798	10,814
Operations of Facilities	76,140	77,000	83,000
Safety and Environmental Operations	26,056	27,468	26,822
Maintenance and Repair of Facilities	111,767	112,000	114,000
Infrastructure and Safety	62,802	58,248	67,714
Recapitalization	62,802	58,248	67,714
Operating	276,765	274,716	291,536
Infrastructure and Operations	276,765	274,716	291,536
STA Operations and Equipment	7,930	8,104	8,302
Secure Transportation Asset	7,930	8,104	8,302
Operations and Maintenance - DNS	143,250	143,250	157,193
Defense Nuclear Security (DNS)	143,250	143,250	157,193
Information Technology and Cyber Security	9,384	8,845	9,803
Material Disposition	6,000	5,800	5,519
Material Management and Minimization	6,000	5,800	5,519
Nonproliferation & Arms Control	503	503	638
Counterterrorism and Counterproliferation	2,606	3,076	3,258
Nuclear Counterterrorism & Incident Response	2,606	3,076	3,258
Environment, Health, Safety & Security	10	10	10

Laboratory Table
Pantex Plant FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Environment, Health, Safety, and Security	10	10	10
Total Pantex Plant	987,702	973,379	1,143,584

Laboratory Table
Pinellas Site FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Pinellas Site			
Legacy Management Activities - Defense	4,535	4,535	4,164
Legacy Management	4,535	4,535	4,164
Total Pinellas Site	4,535	4,535	4,164

Laboratory Table
Portsmouth Gaseous Diffusion Plant FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Portsmouth Gaseous Diffusion Plant			
Depleted Uranium Modernization	15,000	2,000	30,000
Secondary Capability Modernization	15,000	2,000	30,000
Domestic Uranium Enrichment	28,000	30,000	30,000
Tritium and Domestic Uranium Enrichment	28,000	30,000	30,000
Production Modernization	43,000	32,000	60,000
Legacy Management Activities - Defense	5,000	5,000	4,300
Legacy Management	5,000	5,000	4,300
Safeguards and Security - Defense Environmental Cleanup	16,690	16,690	16,690
Gaseous Diffusion Plants	57,974	57,974	60,017
Portsmouth Gaseous Diffusion Plant (D&D Fund)	367,193	367,193	432,354
20-U-401 On-site Waste Disposal Facility	16,500	16,500	48,040
15-U-408 On-Site Waste Disposal Facility, Portsmouth	46,639	46,639	0
Construction - Uranium D&D Fund	63,139	63,139	48,040
Pension and Community and Regulatory Support	3,868	3,868	2,630
Total Portsmouth Gaseous Diffusion Plant	556,864	545,864	624,031

DEPARTMENT OF ENERGY
Laboratory Table
Princeton Plasma Physics Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Princeton Plasma Physics Laboratory			
Proliferation Detection R&D	760	460	855
Defense Nuclear Nonproliferation R&D	760	460	855
Research - Advanced Scientific Computing Research	400	0	0
Advanced Scientific Computing Research	400	0	0
Research - Fusion Energy Sciences	65,015	65,015	55,337
Fusion Energy Sciences	65,015	65,015	55,337
21-SC-71, Princeton Plasma Innovation Center, PPPL	150	900	10,000
21-SC-72, Critical Infrastructure Recovery & Renewal, PPPL	150	2,000	4,000
20-SC-76, Tritium System Demolition and Disposal, PPPL (20-SC-78)	13,000	6,400	0
Construction - Science Laboratories Infrastructure	13,300	9,300	14,000
Science Laboratories Infrastructure	13,300	9,300	14,000
Safeguards and Security - SC	3,358	3,358	6,405
Total Princeton Plasma Physics Laboratory	82,833	78,133	76,597

Laboratory Table
Princeton Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Princeton Site Office			
Program Direction - SC	1,991	1,991	2,190
Total Princeton Site Office	1,991	1,991	2,190

DEPARTMENT OF ENERGY Laboratory Table Richland Operations Office FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Richland Operations Office			
Counterterrorism and Counterproliferation	2,914	2,105	2,788
Nuclear Counterterrorism & Incident Response	2,914	2,105	2,788
Program Direction - National Nuclear Security Administration	6	6	6
Infrastructure Security and Energy Restoration	5,400	5,400	0
Response and Restoration	0	0	2,700
Information Sharing, Partnerships and Exercises	0	0	3,200
Strategic Partnership Projects	100	100	100
Strategic Partnership Projects and Revenues	100	100	100
Environment, Health, Safety & Security	1,000	1,000	1,000
Environment, Health, Safety, and Security	1,000	1,000	1,000
Richland Community and Regulatory Support	8,621	8,621	10,013
Richland	8,621	8,621	10,013
Program Direction - Defense Environmental Cleanup	42,194	42,194	45,901
Total Richland Operations Office	60,235	59,426	65,708

Laboratory Table
Rocky Flats Site FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Rocky Flats Site			
Legacy Management Activities - Defense	26,875	26,875	40,735
Legacy Management	26,875	26,875	40,735
Closure Sites Administration	1,800	1,800	553
Total Rocky Flats Site	28,675	28,675	41,288

DEPARTMENT OF ENERGY
Laboratory Table
Sandia National Laboratories FY 2023
(Dollars in Thousands)

Enotes National Laboratories Enotes National Laboratories Enotes National Laboratories Activation (Page 1975,800) Reguest Death (Page 1975,800) 48,6710 28,687 28,687 28,6710		FY 2021	FY 2022	FY 2023
B61-12 LEP 173,000 92,302 45,710 W88 AL T370 11,250 25,473 22,285 W87-1 Mudification Program 455,000 158,500 158,150 W87-1 Mudification Program 18,000 18,803 218,014 W803 Prozon 18,000 18,803 22,815 Stockpile Substamment 35,852 792,081 910,296 Vespora Damaintermat and Disposition 499 3,450 2,450 Notice Enterprise Assurance 0 0 0 0 17,153 Notice Enterprise Assurance 1,347,80 1,287,997 1,514,588 1,514,588 1,151,500 1,4700		Enacted	Annualized CR	Request Detail
W88 ALT 370 11,426 26,473 22,885 W80-LEP 487,150 455,480 314,533 W87-1 Modification Program 18,500 19,603 218,014 W87-1 Modification Program 18,500 19,863 100,111 Suckpile Major Modermization 875,075 792,01 142,201 Wespons Diamantement and Disposition 499 3,450 2,450 Production Copportions 136,879 136,769 17,154 Niclase Enterprise Assurance 0 0 0 5,742 Stockpile Management 12,000 13,700 14,700 HE & Enregistics 12,000 13,700 14,700 Plearusy Coppulity Modermization 498 306 515 Tritum and Discover Management 498 306 515 Plearusy Coppulity Modermization 498 306 516 Tritum and Consessed Unature Enrolment 498 306 516 Non-Nuclear Capability Modermization 58,733 43,666 614,20 Total, Non-Nuclear Capab	Sandia National Laboratories			
W85-1 LEP 487,100 184,800 514,838 W85-7 Modification Program 18,500 199,103 216,014 W32 Program 18,500 199,103 102,911 Stockpile Mater Modematation 875,075 792,081 190,250 Stockpile Material Medium 334,827 38,657 424,201 Weapons Diamentiment and Disposition 13,673 136,739 171,934 Nucleiar Einerprise Assurance 0 0 5,717,1934 Nucleiar Einerprise Assurance 12,000 13,700 147,700 H.E. Energistics 12,000 13,700 147,700 H.E. Energistics 12,000 13,700 147,700 Primary Capability Moderization 4,66 3,66 5,16 Titlum Distriction Einfortment 4,68 3,66 6,14,20 Total, Non-Nucleia Copability Moderization 5,8753 4,3,66 6,14,20 Total, Non-Nucleia Copability Moderization 5,8753 4,3,66 6,14,20 Total, Non-Nucleia Copability Moderization 5,674 5,547 7,50 <td>B61-12 LEP</td> <td>173,500</td> <td>92,362</td> <td>45,710</td>	B61-12 LEP	173,500	92,362	45,710
W87-1 Modification Program 18,500 199,103 218,014 VRSD Program 18,000 18,663 199,111 Stockpile Major Modernization 875,075 72,081 191,111 Stockpile Substainment 334,627 355,670 424,201 Weapons Daminatiement and Disposition 499 3,3460 242,801 Weapons Daminatiement and Disposition 90 0 5,742 Nuclear Enterprise Assurance 0 0 35,742 Stockpile Management 1,247,160 1,287,997 1,514,566 HE & Energistics 12,000 13,700 14,700 Primary Capability Modernization 12,000 13,700 14,700 Primary Sustainment and Modernization 488 396 515 Tritum and Chomestic Unratume Enterothement 488 396 515 Non-Nuclear Capability Modernization 88,783 43,886 61,420 Total, Non-Nuclear Capability Modernization 88,783 43,886 61,420 Total, Non-Nuclear Capability Modernization 88,783 43,886	W88 ALT 370	11,425	26,473	22,885
W93 Program 18,000 18,663 109,111 Stockojile Major Modernization 875,075 792,061 910,259 Stockojile Sustainment 334,627 358,670 424,201 Weapons Demantlement and Disposition 499 3,450 2,450 Production Operations 138,779 136,796 171,393 Nuclear Effertperiae Assurance 10 1,227,997 1,514,880 Help Explosive & Emergatics 12,000 13,700 14,700 HE Energistics 12,000 13,700 14,700 Primary Capability Modernization 458 395 515 Tritium Sustainment and Modernization 458 395 515 Tritium Capability Modernization 458 395 515 Tritium Sustainment and Modernization 458 395 515 Tritium Capability Modernization 458 395 515 Tritium Capability Modernization 8,753 43,696 61,420 Capability Based Investments 1,850 18,100 17,500 Pillami	W80-4 LEP	487,150	455,480	514,539
Stockpile Major Modernization 875,075 792,081 910,298 Stockpile Suttainment 334,627 355,670 424,201 Weepons Dissonationerment and Disposition 499 3,450 2,240 Production Operations 136,979 136,796 171,934 Nuclear Enterprise Assurance 0 0 5,742 Stockpile Management 1,247,100 1,267,979 1,514,586 High Explosives & Enregrises 12,000 13,700 14,700 Primary Capability Modernization 12,000 13,700 14,700 Primary Sustainment and Modernization 458 395 515 Non-Nuclear Capability Modernization 58,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 89,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 98,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 98,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 98,753 43,696 61,420 Total, Salament Construction (Per-CD-1)	W87-1 Modification Program	185,000	199,103	218,014
Silockylle Sustainment	W93 Program	18,000	18,663	109,111
Waspons Dismantement and Disposition 499 3,450 2,450 Production Operations 136,979 136,798 171,934 Nuclear Enterprise Assurance 0 0 5,742 Stockple Management 1,247,100 1267,997 1,514,588 High Explicatives & Energetics 12,000 13,700 14,700 Plimary Capability Modernization 12,000 13,700 14,700 Tritum and Domestic Unrainum Enfortment 458 395 515 Non-Nuclear Capability Modernization 58,753 43,668 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,668 61,420 Capability Based Investments 15,000 16,557 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Plumang for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Primary Assessment Technologies 10,500 15,000 15,000 Primary Assessment Technologies 6,810 6,611 6,000 Enhanced Capabilities for Subcritical Experiment Executio	Stockpile Major Modernization	875,075	792,081	910,259
Production Operations 136,979 136,976 171,934 Nuclear Enterprise Assurance 0 0 5,742 Stockple Management 1,347,100 1,267,997 1,514,586 High Explosives & Energetics 12,000 13,700 14,700 HE & Energistics 12,000 13,700 14,700 Primary Capability Modernization 12,000 13,700 14,700 Tritium and Domestic Unclaim Enrichment 458 395 515 Total Non-Nuclear Capability Modernization 58,753 43,896 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,896 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,896 61,420 Total Capability Based Investments 18,000 18,150 17,500 Primary Capability Modernization 98,818 82,488 94,135 Total Capability Season Investments 18,000 18,150 17,500 Primary Capability Georgianmatic Contraction (Pre-CD-1) 6,547 6,547 6,547 0 Primary Assessment Te	Stockpile Sustainment	334,627	355,670	424,201
Nuclear Enterprise Assurance 0 0 5,742 Stockpie Management 1,347,180 1,287,977 1,514,586 High Explorives & Energetics 12,000 13,700 14,700 HE & Energistics 12,000 13,700 14,700 Primory Capability Modernization 12,000 13,700 14,700 Tritium Sustinament and Modernization 486 395 515 Tritium and Demestic Uninnum Enrichment 488 395 515 Tritium and Demestic Uninnum Enrichment 488 395 61,420 Capability Madernization 58,753 43,666 61,420 Capability Madernization 58,753 43,666 61,420 Capability Demander Capability Modernization 98,818 84,818 94,135 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Porduction Modernization 98,818 82,488 94,135 Pilanning for Programmatic Construction (Pre-CD-1) 6,541 6,540 6,600 Dynamic Materials Properties 15,000 10,500 <td>Weapons Dismantlement and Disposition</td> <td>499</td> <td>3,450</td> <td>2,450</td>	Weapons Dismantlement and Disposition	499	3,450	2,450
Stockpile Management	Production Operations	136,979	136,796	171,934
High Explosives & Energetics 12,000 13,700 14,700 HE & Energetics 12,000 13,700 14,700 Primary Capability Modernization 12,000 13,700 14,700 Tritum sustainment and Modernization 458 395 515 Tritum sustainment and Modernization 58,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,696 61,420 Capability Based Investments 18,600 18,150 175,00 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 35,818 82,488 94,133 Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 15,000 Advanced Diagnostics 6,810 6,810 6,810 Secondary Assessment Technologies 6,810 6,810 6,810 Erhanced Capabilities for Subcritical Experiment Execution Support 9,553 9,814 9,301 Assessment Science 64,545	Nuclear Enterprise Assurance	0	0	5,742
HE & Energistics 12,000 13,700 14,700 Primary Capability Modernization 12,000 13,700 14,700 Tritium Suchaimment and Modernization 488 335 515 Tritium and Domestic Uranium Enrichment 458 395 515 Non-Nuclear Capability Modernization 58,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 68,753 43,696 61,420 Capability Based Investments 18,000 18,150 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 95,818 24,88 94,135 Primary Assessment Technologies 15,000 15,000 11,000 Dynamic Materials Properties 15,000 15,000 15,266 Advanced Diagnosetics 6,810 6,610 6,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiment Execution Support 9,53 9,614 9,000 Assessment Science 44,545	Stockpile Management	1,347,180	1,287,997	1,514,586
Primary Capability Modernization 12,000 13,700 14,700 Tritium Sustainment and Modernization 458 395 515 Tritium and Domestic Urasinime Incinciment 458 395 515 Non-Nuclear Capability Modernization 58,753 43,696 61,420 Capability Based Investments 18,060 18,500 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 95,818 82,488 94,135 Primary Assessment Technologies 10,500 15,000 15,000 Dynamic Materials Properties 15,000 15,000 15,000 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 23,237 Hydrodynamic and Subport 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 39,14	High Explosives & Energetics	12,000	13,700	14,700
Tritium Sustainment and Modernization 458 395 515 Tritium and Domestic Variation Enrichment 458 395 515 Non-Nuclear Capability Modernization 58,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,696 61,420 Capability Based Investments 18,060 18,150 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Primary Assessment Technologies 10,500 10,500 11,000 Pyrimary Assessment Technologies 15,000 15,000 15,000 Advanced Diagnostics 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiments 20,535 3,212 32,375 Hydrodynamic and Subcritical Experiments 1,600 1,000 1,000 Assessment Sicience 46,454 66,122 74,344 Archiving and Support 9,553 9,614 9,301 Bulleys Environments 14,635 </td <td>HE & Energistics</td> <td>12,000</td> <td>13,700</td> <td>14,700</td>	HE & Energistics	12,000	13,700	14,700
Tritium and Domestic Uranium Enrichment 458 395 515 Non-Nuclear Capability Modernization 58,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,696 61,420 Capability Based Investments 18,060 18,150 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 95,818 82,488 94,135 Primary Assessment Technologies 15,000 15,000 11,000 Dynamic Materials Properties 15,000 15,000 15,000 Advanced Diagnostics 16,110 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 3,2375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,814 9,301 Delivery Environments 10,80 <td>Primary Capability Modernization</td> <td>12,000</td> <td>13,700</td> <td>14,700</td>	Primary Capability Modernization	12,000	13,700	14,700
Non-Nuclear Capability Modernization 58,753 43,696 61,420 Total, Non-Nuclear Capability Modernization 58,753 43,686 61,420 Capability Based Investments 18,060 18,150 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 95,818 82,488 94,135 Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 15,000 Advanced Diagnostics 6,810 6,610 6,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subport 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 3,901 Delivery Environments 11,695 14,500 14,603 Weapons Survivability 26,337 24,300 57,5	Tritium Sustainment and Modernization	458	395	515
Total, Non-Nuclear Capability Modernization 58,753 43,696 61,420 Capability Based Investments 18,060 18,150 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0.547 0 Production Modernization 95,818 82,488 84,183 Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 15,266 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,814 9,341 Delivery Environments 14,695 14,500 14,463 Studies and Assessments 10,70 0 2,093 Stockpile Responsiveness 17,993	Tritium and Domestic Uranium Enrichment	458	395	515
Capability Based Investments 18,060 18,150 17,500 Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 95,818 82,488 94,135 Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 15,266 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 23,275 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 14,695 14,500 14,483 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 2,093 Aging and Lifetimes 16,200 17,703 17,733 17,733 16,200 Stockpile Responsiveness 17,993	Non-Nuclear Capability Modernization	58,753	43,696	61,420
Planning for Programmatic Construction (Pre-CD-1) 6,547 6,547 0 Production Modernization 95,818 82,488 94,135 Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 8,000 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 16,737 16,700 16,200 Stockpile Responsiveness 17,993 117,733 16,200 Stockpile Responsiveness 17,993 17,734 16,200	Total, Non-Nuclear Capability Modernization	58,753	43,696	61,420
Production Modernization 95,818 82,488 94,135 Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 15,000 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,683 Waepons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,447 123,164 Inertial Confinement Fusion 66,900 66,900 <td>Capability Based Investments</td> <td>18,060</td> <td>18,150</td> <td>17,500</td>	Capability Based Investments	18,060	18,150	17,500
Primary Assessment Technologies 10,500 10,500 11,000 Dynamic Materials Properties 15,000 15,000 15,266 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,533 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,920 Stockpile Responsiveness 17,993 17,733 16,920 Stockpile Responsiveness 19,394 24,325 20,300 16,900	Planning for Programmatic Construction (Pre-CD-1)	6,547	6,547	0
Dynamic Materials Properties 15,000 15,000 15,266 Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,344 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Surrivability 26,237 24,300 57,534 Studies and Assessments 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,447 123,164 Inertial Confinement Fusion 66,900 66,900 65,500	Production Modernization	95,818	82,488	94,135
Advanced Diagnostics 10,100 9,200 8,000 Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,920 Stockpile Responsiveness 17,993 17,733 16,920 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 <td>Primary Assessment Technologies</td> <td>10,500</td> <td>10,500</td> <td>11,000</td>	Primary Assessment Technologies	10,500	10,500	11,000
Secondary Assessment Technologies 6,810 6,610 6,000 Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 19,346 22,999	Dynamic Materials Properties	15,000	15,000	15,266
Enhanced Capabilities for Subcritical Experiments 20,535 23,212 32,375 Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,200 Stockpile Responsiveness 17,997 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Simulation and Computing 151,310 151,310 170,8	Advanced Diagnostics	10,100	9,200	8,000
Hydrodynamic and Subcritical Experiment Execution Support 1,600 1,600 1,700 Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 151,310 151,310	Secondary Assessment Technologies	6,810	6,610	6,000
Assessment Science 64,545 66,122 74,341 Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,900 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,788 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation & Computing 151,310 151,310 170,831 <td>Enhanced Capabilities for Subcritical Experiments</td> <td>20,535</td> <td>23,212</td> <td>32,375</td>	Enhanced Capabilities for Subcritical Experiments	20,535	23,212	32,375
Archiving and Support 9,553 9,614 9,301 Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 49	Hydrodynamic and Subcritical Experiment Execution Support	1,600	1,600	1,700
Delivery Environments 14,695 14,500 14,463 Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 <td>Assessment Science</td> <td>64,545</td> <td>66,122</td> <td>74,341</td>	Assessment Science	64,545	66,122	74,341
Weapons Survivability 26,237 24,300 57,534 Studies and Assessments 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 10,581	Archiving and Support	9,553	9,614	9,301
Studies and Assessments 0 0 2,093 Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581<	Delivery Environments	14,695	14,500	14,463
Aging and Lifetimes 16,737 16,700 16,200 Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Weapons Survivability	26,237	24,300	57,534
Stockpile Responsiveness 17,993 17,733 16,921 Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Studies and Assessments	0	0	2,093
Advanced Certification and Qualification 7,097 7,000 6,652 Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Aging and Lifetimes	16,737	16,700	16,200
Engineering and Integrated Assessments 92,312 89,847 123,164 Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Stockpile Responsiveness	17,993	17,733	16,921
Inertial Confinement Fusion 66,900 66,900 65,500 Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Advanced Certification and Qualification	7,097	7,000	6,652
Surety Technologies 24,325 20,350 19,608 Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Engineering and Integrated Assessments	92,312	89,847	123,164
Weapon Technology Development 82,402 74,214 72,791 Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Inertial Confinement Fusion	66,900	66,900	65,500
Advanced Manufacturing Development 19,346 22,999 25,798 Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Surety Technologies	24,325	20,350	19,608
Weapons Technology and Manufacturing Maturation 126,073 117,563 118,197 Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Weapon Technology Development	82,402	74,214	72,791
Advanced Simulation and Computing 151,310 151,310 170,831 Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Advanced Manufacturing Development	19,346	22,999	25,798
Advanced Simulation & Computing 151,310 151,310 170,831 Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Weapons Technology and Manufacturing Maturation	126,073	117,563	118,197
Stockpile Research, Technology, and Engineering 501,140 491,742 552,033 Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Advanced Simulation and Computing	151,310	151,310	170,831
Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000	Advanced Simulation & Computing	151,310	151,310	170,831
Operations of Facilities 125,307 126,000 106,000 Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000				
Safety and Environmental Operations 10,581 9,867 10,630 Maintenance and Repair of Facilities 18,994 24,000 28,000		125,307	126,000	106,000
Maintenance and Repair of Facilities 18,994 24,000 28,000		10,581	9,867	10,630
	·			
	Infrastructure and Safety	67,732	57,476	73,644

Laboratory Table
Sandia National Laboratories FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Recapitalization	67,732	57,476	73,644
Operating	222,614	217,343	218,274
15-D-611, Emergency Operations Center, SNL	36,000	36,000	0
Mission Enabling Construction	36,000	36,000	0
I&O - Construction	36,000	36,000	0
Infrastructure and Operations	258,614	253,343	218,274
STA Operations and Equipment	81,701	80,627	73,012
Secure Transportation Asset	81,701	80,627	73,012
Operations and Maintenance - DNS	70,490	70,490	74,845
Defense Nuclear Security (DNS)	70,490	70,490	74,845
Information Technology and Cyber Security	34,741	30,651	38,887
Conversion	1,000	700	700
Nuclear Material Removal	0	100	0
Material Disposition	660	350	300
Material Management and Minimization	1,660	1,150	1,000
International Nuclear Security	7,793	16,595	8,012
Global Material Security	7,793	16,595	8,012
Nonproliferation & Arms Control	11,426	11,426	14,487
Proliferation Detection R&D	31,064	29,650	34,924
Nuclear Detonation Detection	105,091	94,895	105,225
Forensics R&D	1,634	2,000	1,634
Nonproliferation Stewardship Program	450	150	460
Defense Nuclear Nonproliferation R&D	138,239	126,695	142,243
NNSA Bioassurance Program	0	0	5,000
Counterterrorism and Counterproliferation	62,415	56,578	74,305
Nuclear Counterterrorism & Incident Response	62,415	56,578	74,305
Research - Advanced Scientific Computing Research	18,509	14,862	16,171
Advanced Scientific Computing Research	18,509	14,862	16,171
Research - Basic Energy Sciences	24,264	25,122	24,240
Basic Energy Sciences	24,264	25,122	24,240
Research - Biological & Environmental Research	15,928	15,928	12,122
Biological and Environmental Research	15,928	15,928	12,122
Research - Fusion Energy Sciences	2,100	2,534	500
Fusion Energy Sciences	2,100	2,534	500
Research - High Energy Physics	50	500	100
High Energy Physics	50	500	100
Vehicle Technologies	10,556	4,800	4,820
Bioenergy Technologies	7,900	7,900	7,000
Hydrogen and Fuel Cells Technologies	10,986	6,500	7,300
Sustainable Transportation	29,442	19,200	19,120
Wind Energy Technologies	10,097	11,051	28,922
Water Power Technologies	8,796	7,565	7,583
Geothermal Technologies	650	3,000	0
Renewable Power	19,543	21,616	36,505
Building Technologies	618	293	168
Energy Efficiency	618	293	168
Strategic Programs	250	0	0
Corporate Support	250	0	0
Transmission Reliability and Resilience	2,186	0	2,550
Energy Delivery Grid Operations Technology	0	0	3,000

DEPARTMENT OF ENERGY
Laboratory Table
Sandia National Laboratories FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Resilient Distribution Systems	3,176	0	3,100
Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	1,100
Energy Storage R&D	32,458	0	33,000
Energy Storage	32,458	0	33,000
Transformer Resilience and Advanced Components	365	0	1,000
Transmission Permitting and Technical Assistance	290	0	0
Cybersecurity for Energy Delivery Systems	4,887	4,887	0
Advanced Oil and Gas Prod Tech (Unconv FE)	1,800	1,800	0
Strategic Petroleum Reserve (SPR)	3,822	3,822	4,000
STEP R&D	4,311	4,311	0
LWR Sustainability	1,625	1,625	3,900
Reactor Concepts RD&D	1,625	1,625	3,900
Accident Tolerant Fuels	136	136	149
Used Nuclear Fuel Disposition R&D	19,600	19,600	17,000
Integrated Waste Management System	4,000	4,000	1,500
Fuel Cycle Research & Development	23,736	23,736	18,649
Crosscutting Technology Development	1,529	1,529	2,000
Joint Modeling and Simulation Program	250	250	250
Nuclear Energy Enabling Technologies	1,779	1,779	2,250
Regulatory Development	300	300	300
Advanced Reactors Safeguards	1,133	1,133	2,050
Advanced Reactors Demonstration Program	1,433	1,433	2,350
Interim Storage	7,000	7,000	0
Oversight Activities Nuclear Waste Disposal	500	500	500
Environment, Health, Safety & Security	1,210	1,210	1,210
Environment, Health, Safety, and Security	1,210	1,210	1,210
Office of Technology Transitions (DA)	175	175	0
Total Sandia National Laboratories	2,812,674	2,662,115	2,996,354

Laboratory Table
Sandia Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Sandia Site Office		204 011	
Information Technology and Cyber Security	1,100	921	957
Radiological Security	33,411	48,066	29,745
Nuclear Smuggling Detection and Deterrence	12,261	9,000	12,478
Global Material Security	45,672	57,066	42,223
Program Direction - National Nuclear Security Administration	17,567	17,686	20,018
Advanced Manufacturing	2,075	0	0
Energy Efficiency	2,075	0	0
Infrastructure Security and Energy Restoration	300	300	0
Risk Management Technology and Tools	0	0	6,400
Response and Restoration	0	0	500
Information Sharing, Partnerships and Exercises	0	0	750
Carbon Storage	798	798	0
CCS and Power Systems	798	798	0
Cross Cutting Research	1,206	1,206	0
Advanced Coal Energy Systems & CCUS	1,206	1,206	0
Fuel Cycle Laboratory R&D	800	800	1,864
Fuel Cycle Research & Development	800	800	1,864
Sandia National Laboratory (SNL)	4,860	4,860	4,003
NNSA Sites and Nevada Off-Sites	4,860	4,860	4,003
Total Sandia Site Office	74,378	83,637	76,715

Laboratory Table
Savannah River National Laboratory FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Savannah River National Laboratory			
Research - Biological & Environmental Research	150	150	0
Biological and Environmental Research	150	150	0
Research - Fusion Energy Sciences	75	75	0
Fusion Energy Sciences	75	75	0
Vehicle Technologies	390	500	400
Hydrogen and Fuel Cells Technologies	1,065	200	200
Sustainable Transportation	1,455	700	600
Savannah River National Laboratory O&M	0	0	41,000
Savannah River Sites	0	0	41,000
Total Savannah River National Laboratory	1,680	925	41,600

DEPARTMENT OF ENERGY
Laboratory Table
Savannah River Operations Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Savannah River Operations Office			
Savannah River Plutonium Operations	7,300	1,287	0
21-D-511, Savannah River Plutonium Processing Facility, SRS	8,000	2,000	0
Savannah River Plutonium Modernization	15,300	3,287	0
Plutonium Modernization	15,300	3,287	0
Primary Capability Modernization	15,300	3,287	0
Production Modernization	15,300	3,287	0
Infrastructure and Safety	0	1,750	17,850
Recapitalization	0	1,750	17,850
Operating	0	1,750	17,850
Infrastructure and Operations	0	1,750	17,850
Information Technology and Cyber Security	525	445	398
International Nuclear Security	131	46	135
Global Material Security	131	46	135
Nonproliferation & Arms Control	4,825	4,825	0
Program Direction - National Nuclear Security Administration	9,638	9,936	10,871
HALEU Availability	0	0	22,400
Used Nuclear Fuel Disposition R&D	300	300	300
Integrated Waste Management System	500	500	800
Fuel Cycle Research & Development	800	800	23,500
Strategic Partnership Projects	6,700	6,700	11,200
Strategic Partnership Projects and Revenues	6,700	6,700	11,200
SR Community and Regulatory Support	11,549	11,549	12,137
Savannah River Sites	11,549	11,549	12,137
Program Direction - Defense Environmental Cleanup	42,051	42,051	48,747
Safeguards and Security - Defense Environmental Cleanup	171,211	171,211	152,194
Total Savannah River Operations Office	262,730	252,600	277,032

Laboratory Table
Savannah River Site FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Savannah River Site			
B61-12 LEP	7,000	16,200	17,500
W80-4 LEP	2,700	3,204	2,240
W87-1 Modification Program	2,000	2,157	2,972
W93 Program	500	500	1,183
Stockpile Major Modernization	12,200	22,061	23,895
Stockpile Sustainment	43,831	44,177	52,094
Weapons Dismantlement and Disposition	100	700	600
Production Operations	24,736	24,789	25,783
Nuclear Enterprise Assurance	0	0	3,977
Stockpile Management	80,867	91,727	106,349
Savannah River Plutonium Operations	191,575	198,044	56,600
21-D-511, Savannah River Plutonium Processing Facility, SRS	233,896	239,896	700,000
Savannah River Plutonium Modernization	425,471	437,940	756,600
Plutonium Modernization	425,471	437,940	756,600
Primary Capability Modernization	425,471	437,940	756,600
Tritium Sustainment and Modernization	90,504	135,049	125,563
18-D-650, Tritium Finishing Facility, SRS	25,500	25,500	71,800
Tritium and Domestic Uranium Enrichment	116,004	160,549	197,363
Non-Nuclear Capability Modernization	0	100	110
Total, Non-Nuclear Capability Modernization	0	100	110
Capability Based Investments	4,200	6,190	6,900
Production Modernization	545,675	604,779	960,973
Enhanced Capabilities for Subcritical Experiments	0	1,000	1,375
Assessment Science	0	1,000	1,375
Aging and Lifetimes	2,554	2,810	2,700
Engineering and Integrated Assessments	2,554	2,810	2,700
Surety Technologies	349	320	300
Advanced Manufacturing Development	5,050	7,384	7,536
Weapons Technology and Manufacturing Maturation	5,399	7,704	7,836
Stockpile Research, Technology, and Engineering	7,953	11,514	11,911
Operations of Facilities	94,090	94,000	97,000
Safety and Environmental Operations	12,190	12,389	13,265
Maintenance and Repair of Facilities	41,752	40,000	47,000
Infrastructure and Safety	16,767	24,728	10,038
Recapitalization	16,767	24,728	10,038
Operating	164,799	171,117	167,303
Infrastructure and Operations	164,799	171,117	167,303
Operations and Maintenance - DNS	8,520	8,520	9,180
Defense Nuclear Security (DNS)	8,520	8,520	9,180
Information Technology and Cyber Security	6,384	6,379	7,644
Conversion	8,253	3,714	5,777
Nuclear Material Removal	17,723	13,600	15,550
Material Disposition	47,034	42,368	55,861
Laboratory and Partnership Support	1,545	0	0
Material Management and Minimization	74,555	59,682	77,188
Nuclear Smuggling Detection and Deterrence	40	0	41
Global Material Security	40	0	41
Nonproliferation & Arms Control	2,057	2,057	8,726

Laboratory Table
Savannah River Site FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Proliferation Detection R&D	11,207	13,456	12,600
Forensics R&D	1,728	1,650	1,728
Nonproliferation Stewardship Program	575	200	5,121
Defense Nuclear Nonproliferation R&D	13,510	15,306	19,449
18-D-150, Surplus Plutonium Disposition Project, SRS	143,565	142,905	66,764
Nonproliferation Construction	143,565	142,905	66,764
Counterterrorism and Counterproliferation	3,701	3,385	4,051
Nuclear Counterterrorism & Incident Response	3,701	3,385	4,051
Environment, Health, Safety & Security	10	10	10
Environment, Health, Safety, and Security	10	10	10
SR-0011C NM Stabilization and Disposition	349,724	349,724	270,461
SR-0013 Solid Waste Stabilization and Disposition	50,071	50,071	45,509
SR-0030 Soil and Water Remediation	56,412	56,412	60,455
SR-0041: Risk Reduction Deactivation and Surveillance	27,264	27,264	21,463
SR-0042: Infrastructure and Land Management	16,529	16,529	18,429
Savannah River Risk Management Operations	500,000	500,000	416,317
18-D-402 Emergency Operations Center Replacement, SR	6,500	6,500	25,568
19-D-701 SR Security Systems Replacement	1,000	1,000	5,000
20-D-402 Advanced Manufacturing Collaborative Facility (AMC)	25,000	25,000	0
Construction - Savannah River Sites	32,500	32,500	30,568
Savannah River Legacy Pensions	0	0	132,294
Radioactive Liquid Tank Waste Stabilization	910,832	910,832	851,660
20-D-401 Saltstone Disposal Unit #10, 11, 12	562	562	37,668
18-D-402 Saltstone disposal unit #8/9	65,500	65,500	49,832
17-D-402 Saltstone Disposal Unit #7	10,716	10,716	0
Construction - Radioactive Liquid Tank Waste	76,778	76,778	87,500
Savannah River Sites	1,520,110	1,520,110	1,518,339
Total Savannah River Site	2,571,746	2,637,491	2,957,928

Laboratory Table
Savannah River Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023	
	Enacted	Annualized CR	Request Detail	
Savannah River Site Office				
Environment, Health, Safety & Security	500	500	500	
Environment, Health, Safety, and Security	500	500	500	
Total Savannah River Site Office	500	500	500	

DEPARTMENT OF ENERGY
Laboratory Table
Separations Process Research Unit FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Separations Process Research Unit			
Separations Processing Research Unit	15,000	15,000	15,300
NNSA Sites and Nevada Off-Sites	15,000	15,000	15,300
Total Separations Process Research Unit	15,000	15,000	15,300

Laboratory Table
SLAC National Accelerator Laboratory FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
SLAC National Accelerator Laboratory			
Inertial Confinement Fusion	180	180	180
Stockpile Research, Technology, and Engineering	180	180	180
Proliferation Detection R&D	1,007	1,300	1,133
Forensics R&D	729	275	729
Defense Nuclear Nonproliferation R&D	1,736	1,575	1,862
Research - Advanced Scientific Computing Research	670	450	450
Advanced Scientific Computing Research	670	450	450
Research - Basic Energy Sciences	215,455	231,156	211,456
21-SC-10, Cryomodule Repair and Maintenance Facility, SLAC	1,000	1,000	10,000
18-SC-13, Linac Coherent Light Source-II-High Energy (LCLS-II-HE), SLAC	52,000	50,000	90,000
13-SC-10, Linac Coherent Light Source-II (LCLS-II), SLAC	33,000	28,100	0
Construction - Basic Energy Sciences	86,000	79,100	100,000
Basic Energy Sciences	301,455	310,256	311,456
Research - Biological & Environmental Research	4,100	4,100	4,520
Biological and Environmental Research	4,100	4,100	4,520
Research - Fusion Energy Sciences	5,495	3,545	5,500
20-SC-61, Matter in Extreme Conditions (MEC) Petawatt Upgrade, SLAC	15,000	5,000	1,000
Construction - Fusion Energy Sciences	15,000	5,000	1,000
Fusion Energy Sciences	20,495	8,545	6,500
Research - High Energy Physics	81,678	76,607	81,434
High Energy Physics	81,678	76,607	81,434
Operations and Maintenance - Nuclear Physics	1,166	1,166	1,321
Nuclear Physics	1,166	1,166	1,321
Research - Accelerator R&D and Production	0	1,320	100
Accelerator R&D and Production	0	1,320	100
20-SC-75, Large Scale Collaboration Center, SLAC (19-SC-75)	11,000	12,000	30,000
20-SC-79, Critical Utilities Infrastructure Revitalization, SLAC (20-SC-81)	500	500	25,425
Construction - Science Laboratories Infrastructure	11,500	12,500	55,425
Science Laboratories Infrastructure	11,500	12,500	55,425
Safeguards and Security - SC	3,914	3,914	8,890
Vehicle Technologies	4,050	4,350	6,000
Bioenergy Technologies	365	365	350
Hydrogen and Fuel Cells Technologies	0	300	500
Sustainable Transportation	4,415	5,015	6,850
Solar Energy Technologies	867	867	1,200
Renewable Power	867	867	1,200
Advanced Manufacturing	0	1,500	1,500
Building Technologies	640	0	0
Energy Efficiency	640	1,500	1,500
Transmission Reliability and Resilience	260	0	0
Resilient Distribution Systems	55	0	0
Infrastructure Security and Energy Restoration	1,000	1,000	0
Advanced Oil and Gas Prod Tech (Unconv FE)	252	252	0
Crosscutting Technology Development	48	48	0
Nuclear Energy Enabling Technologies	48	48	0
Total SLAC National Accelerator Laboratory	434,431	429,295	481,688

Laboratory Table
SLAC Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
SLAC Site Office			
ogram Direction - SC	O	2,411	2,615
I SLAC Site Office	O	2,411	2,615

DEPARTMENT OF ENERGY
Laboratory Table
Southwestern Power Administration Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Southwestern Power Administration Office			
Operation And Maintenance - SWPA	13,292	13,292	15,517
Construction - SWPA	13,267	13,267	16,035
Purchase Power And Wheeling - SWPA	54,000	54,000	93,000
Program Direction - SWPA	35,635	35,635	38,250
Subtotal, SWPA	116,194	116,194	162,802
Total Southwestern Power Administration Office	116,194	116,194	162,802

DEPARTMENT OF ENERGY
Laboratory Table
Strategic Petroleum Reserve - Bayou Choctow FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Strategic Petroleum Reserve - Bayou Choctow			
Strategic Petroleum Reserve (SPR)	13,533	13,533	16,281
Total Strategic Petroleum Reserve - Bayou Choctow	13,533	13,533	16,281

DEPARTMENT OF ENERGY
Laboratory Table
Strategic Petroleum Reserve - Big Hill FY 2023
(Dollars in Thousands)

	1		
	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Strategic Petroleum Reserve - Big Hill			
Strategic Petroleum Reserve (SPR)	20,740	20,740	21,040
Total Strategic Petroleum Reserve - Big Hill	20,740	20,740	21,040

DEPARTMENT OF ENERGY
Laboratory Table
Strategic Petroleum Reserve - Bryan Mound FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Strategic Petroleum Reserve - Bryan Mound			
Strategic Petroleum Reserve (SPR)	18,519	18,519	19,245
Total Strategic Petroleum Reserve - Bryan Mound	18,519	18,519	19,245

DEPARTMENT OF ENERGY
Laboratory Table
Strategic Petroleum Reserve - West Hackberry FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Strategic Petroleum Reserve - West Hackberry			
Strategic Petroleum Reserve (SPR)	23,383	23,383	20,484
Total Strategic Petroleum Reserve - West Hackberry	23,383	23,383	20,484

DEPARTMENT OF ENERGY
Laboratory Table
Strategic Petroleum Reserve Project Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Strategic Petroleum Reserve Project Office			
SPR - Petroleum Account	1,000	1,000	8,000
Strategic Petroleum Reserve (SPR)	98,515	98,515	102,610
Total Strategic Petroleum Reserve Project Office	99.515	99.515	110.610

DEPARTMENT OF ENERGY
Laboratory Table
Thomas Jefferson National Accelerator Facility FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Thomas Jefferson National Accelerator Facility			
Non-Nuclear Capability Modernization	0	100	100
Total, Non-Nuclear Capability Modernization	0	100	100
Production Modernization	0	100	100
Research - Advanced Scientific Computing Research	360	0	0
Advanced Scientific Computing Research	360	0	0
Research - High Energy Physics	420	0	0
High Energy Physics	420	0	0
Operations and Maintenance - Nuclear Physics	129,353	134,480	153,899
20-SC-52, Electron Ion Collider, BNL	0	1,250	0
Construction - Nuclear Physics	0	1,250	0
Nuclear Physics	129,353	135,730	153,899
Research - Accelerator R&D and Production	0	350	427
Accelerator R&D and Production	0	350	427
Facilities and Infrastructure (SLI)	0	3,900	0
20-SC-73, CEBAF Renovation and Expansion, TJNAF (19-SC-73)	2,000	10,000	2,000
Construction - Science Laboratories Infrastructure	2,000	10,000	2,000
Science Laboratories Infrastructure	2,000	13,900	2,000
Safeguards and Security - SC	3,037	3,037	5,633
Office of Technology Transitions (DA)	30	30	0
Total Thomas Jefferson National Accelerator Facility	135,200	153,147	162,059

DEPARTMENT OF ENERGY
Laboratory Table
Thomas Jefferson Site Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Thomas Jefferson Site Office			
Program Direction - SC	1,812	1,812	2,461
Total Thomas Jefferson Site Office	1,812	1,812	2,461

Laboratory Table
Undesignated Lab/Plant/Installation FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Undesignated Lab/Plant/Installation	Endoted	7 till dall 200 Oft	roquoot Botan
Research - Advanced Scientific Computing Research	49,552	113,293	85,078
Advanced Scientific Computing Research	49,552	113,293	85,078
Research - Basic Energy Sciences	0	320,459	487,170
Basic Energy Sciences	0	320,459	487,170
Research - Biological & Environmental Research	106,090	94,152	136,433
Biological and Environmental Research	106,090	94,152	136,433
Research - Fusion Energy Sciences	42,456	42,456	71,320
Fusion Energy Sciences	42,456	42,456	71,320
Research - High Energy Physics	28,708	32,810	56,655
High Energy Physics	28,708	32,810	56,655
Operations and Maintenance - Nuclear Physics	52,345	29,732	40,208
Nuclear Physics	52,345	29,732	40,208
Research - Accelerator R&D and Production	0	2,128	6,916
Accelerator R&D and Production	0	2,128	6,916
Workforce Development for Teachers & Scientists	29,000	29,000	41,300
Facilities and Infrastructure (SLI)	0	0	100
Science Laboratories Infrastructure	0	0	100
Safeguards and Security - SC	0	17,096	28,429
Energy Delivery Grid Operations Technology	0	0	20
Total Undesignated Lab/Plant/Installation	308,151	681,126	953,629

Laboratory Table
University of Rochester FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
University of Rochester	Endoted	7 WINGGINZON OTC	request Betain
Inertial Confinement Fusion	82,000	82,000	75,000
Stockpile Research, Technology, and Engineering	82,000	82,000	75,000
Total University of Rochester	82,000	82,000	75,000

	EV 2024	EV 2022	EV 2022
	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Washington Headquarters	Litatiou	Allitudii20d Oil	request Detail
B61-12 LEP	10,196	11,575	21,000
W88 ALT 370	3,212	630	4,800
W80-4 LEP	12,504	48	34,000
W87-1 Modification Program	6,763	0	20,467
W93 Program	663	0	7,215
	33,338	12,253	87,482
Stockpile Major Modernization Stockpile Sustainment	21,128	4,800	45,106
Weapons Dismantlement and Disposition	1,245	142	1,529
·	,		•
Production Operations	13,199	22,758	23,273
Nuclear Enterprise Assurance	0	0	1,467
Stockpile Management	68,910	39,953	158,857
Los Alamos Plutonium Operations	9,007	2,486	11,519
21-D-512, Plutonium Pit Production Project, LANL	0	2,000	0
04-D-125, Chemistry and Metallurgy Research Replacement Project, LANL	2,000	2,000	0
Los Alamos Plutonium Modernization	11,007	6,486	11,519
Savannah River Plutonium Operations	1,125	669	1,700
Savannah River Plutonium Modernization	1,125	669	1,700
Enterprise Plutonium Support	1,135	2,731	1,282
Plutonium Modernization	13,267	9,886	14,501
High Explosives & Energetics	8,795	8,920	30,680
HESE OPCs	47	0	0
21-D-510, HE Synthesis, Formulation, and Production, PX	3,000	1,000	0
HE & Energistics	11,842	9,920	30,680
Primary Capability Modernization	25,109	19,806	45,181
Uranium Modernization	41,116	1,000	63,836
Depleted Uranium Modernization	21,312	500	8,271
Lithium Modernization	3,082	500	1,588
Secondary Capability Modernization	65,510	2,000	73,695
Tritium Sustainment and Modernization	3,901	4,525	9,810
Domestic Uranium Enrichment	4,151	5,585	42,092
HEU Downblend	74,488	80,000	0
Uranium Reserve	75,000	75,000	0
18-D-650, Tritium Finishing Facility, SRS	1,500	1,500	1,500
Tritium and Domestic Uranium Enrichment	159,040	166,610	53,402
Non-Nuclear Capability Modernization	3,154	11,510	11,275
Total, Non-Nuclear Capability Modernization	3,154	11,510	11,275
Capability Based Investments	14,597	23,579	27,420
Planning for Programmatic Construction (Pre-CD-1)	953	3,453	0
Production Modernization	268,363	226,958	210,973
Primary Assessment Technologies	14,712	14,712	9,303
Dynamic Materials Properties	15,722	19,722	8,140
Advanced Diagnostics	2,669	4,469	2,424
Secondary Assessment Technologies	6,738	8,990	2,301
Enhanced Capabilities for Subcritical Experiments	50,743	5,219	10,343
Hydrodynamic and Subcritical Experiment Execution Support	7,501	7,501	9,510
17-D-640, U1a Complex Enhancements Project, NNSS	8,000	30,600	0
Assessment Science	106,085	91,213	42,021
Archiving and Support	572	920	887

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Delivery Environments	81	750	767
Weapons Survivability	1,437	1,160	1,889
Studies and Assessments	0	0	64
Aging and Lifetimes	778	1,271	1,200
Stockpile Responsiveness	875	1,420	1,375
Advanced Certification and Qualification	752	1,206	1,024
Engineering and Integrated Assessments	4,495	6,727	7,206
Inertial Confinement Fusion	15,920	15,920	12,208
Surety Technologies	927	657	1,030
Weapon Technology Development	1,545	1,564	2,427
Advanced Manufacturing Development	1,399	1,438	2,267
Weapons Technology and Manufacturing Maturation	3,871	3,659	5,724
Advanced Simulation and Computing	8,000	8,000	11,140
Advanced Simulation & Computing	8,000	8,000	11,140
Stockpile Research, Technology, and Engineering	138,371	125,519	78,299
Operations of Facilities	14,654	32,500	41,000
Safety and Environmental Operations	4,883	6,981	9,538
Maintenance and Repair of Facilities	88,546	98,000	95,000
Infrastructure and Safety	34,269	96,960	52,085
Recapitalization	34,269	96,960	52,085
Operating	142,352	234,441	197,623
Infrastructure and Operations	142,352	234,441	197,623
Operations and Maintenance - DNS	69,878	69,878	94,879
Defense Nuclear Security (DNS)	69,878	69,878	94,879
Information Technology and Cyber Security	217,829	225,952	260,875
Legacy Contractor Pensions and Settlement Payments (WA)	101,668	101,668	114,632
Conversion	3,023	24,619	7,060
Nuclear Material Removal	640	500	1,000
Material Disposition	1,335	51,530	18,111
Laboratory and Partnership Support	13,000	60,000	0
Material Management and Minimization	17,998	136,649	26,171
International Nuclear Security	1,939	9,007	1,993
Radiological Security	2,630	21,610	2,341
Nuclear Smuggling Detection and Deterrence	459	4,088	467
Global Material Security	5,028	34,705	4,801
Nonproliferation & Arms Control	18,248	18,248	23,138
Proliferation Detection R&D	32,047	28,790	36,618
Nuclear Detonation Detection	4,595	5,324	10,327
Nonproliferation Fuels Development	260	16,494	0
Forensics R&D	1,288	3,750	702
Nonproliferation Stewardship Program	13,480	6,450	17,312
Defense Nuclear Nonproliferation R&D	51,670	60,808	64,959
18-D-150, Surplus Plutonium Disposition Project, SRS	663	2,679	5,000
Nonproliferation Construction	663	2,679	5,000
Emergency Operations	12,564	12,585	26,970
Counterterrorism and Counterproliferation	15,867	38,159	35,748
Nuclear Counterterrorism & Incident Response	28,431	50,744	62,718
Naval Reactors Development	1,955	1,955	15,531
Naval Reactors Operations and Infrastructure	9,953	9,953	2,365
Program Direction - Naval Reactors	31,020	31,020	35,115

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Program Direction - National Nuclear Security Administration	317,932	322,125	369,909
Research - Advanced Scientific Computing Research	88,623	0	0
Advanced Scientific Computing Research	88,623	0	0
Research - Basic Energy Sciences	439,674	0	0
Basic Energy Sciences	439,674	0	0
Research - Biological & Environmental Research	6,170	0	0
Biological and Environmental Research	6,170	0	0
Research - Fusion Energy Sciences	124,899	0	0
Fusion Energy Sciences	124,899	0	0
Research - High Energy Physics	68,224	0	0
High Energy Physics	68,224	0	0
Operations and Maintenance - Nuclear Physics	67,784	0	0
20-SC-51, U.S. Stable Isotope Production and Research Center, (SIPRC)	0	12,000	12,000
Construction - Nuclear Physics	0	12,000	12,000
Nuclear Physics	67,784	12,000	12,000
Research - Isotope R&D and Production	0	72,000	85,451
Isotope R&D and Production	0	72,000	85,451
Facilities and Infrastructure (SLI)	29,590	0	0
Science Laboratories Infrastructure	29,590	0	0
Safeguards and Security - SC	17,096	0	0
Program Direction - SC	105,832	105,832	114,188
Vehicle Technologies	49,209	47,085	53,500
Bioenergy Technologies	16,835	12,000	40,050
Hydrogen and Fuel Cells Technologies	11,846	9,100	11,100
Sustainable Transportation	77,890	68,185	104,650
Renewable Energy Grid Integration	0	0	47,730
Wind Energy Technologies	14,434	15,269	39,500
Water Power Technologies	44,534	50,299	42,745
Geothermal Technologies	5,111	6,632	4,000
Renewable Power	64,079	72,200	133,975
Advanced Manufacturing	203,546	39,694	27,500
Building Technologies	137,399	108,506	207,195
Federal Energy Management Program (EERE)	4,802	5,000	0
Weatherization Assistance Program (EERE)	0	825	0
Training and Technical Assistance (EERE)	550	500	0
State Energy Program Grants (EERE)	2,386	2,300	0
Weatherization and Intergovernmental Programs	2,936	3,625	0
Energy Efficiency	348,683	156,825	234,695
Program Direction - Energy Efficiency and Renewable Energy	129,556	130,816	165,350
Strategic Programs	4,800	11,400	47,900
Corporate Support	134,356	142,216	213,250
Transmission Reliability and Resilience	3	288	245
Energy Delivery Grid Operations Technology	0	0	300
Resilient Distribution Systems	1,186	1,474	1,500
Energy Storage R&D	200	287	600
Energy Storage Energy Storage	200	287	600
Transformer Resilience and Advanced Components	200	228	200
·	764	1,082	0
Transmission Permitting and Technical Assistance			
Program Direction - Electricity	13,931	15,390	13,608
Cybersecurity for Energy Delivery Systems	3,783	3,783	0

DEPARTMENT OF ENERGY Laboratory Table Washington Headquarters FY 2023 (Dollars in Thousands)

	EV 2004	EV 2002	EV 2002
	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Infrastructure Security and Energy Restoration	6,800	6,800	Request Detail 0
Risk Management Technology and Tools	0,300	0,000	3,900
Response and Restoration	0	0	2,500
Information Sharing, Partnerships and Exercises	0	0	3,450
Program Direction - CESER	9,250	10,000	20,143
-			20,143
Carbon Litilization	71,163	71,163	0
Carbon Utilization	16,385	16,385	
Carbon Storage	53,433	53,433	0
CCS and Power Systems	140,981	140,981	0
Advanced Energy Systems	67,411	67,411	0
Cross Cutting Research	23,722	23,722	0
Advanced Coal Energy Systems & CCUS	91,133	91,133	0
Mineral Sustainability	35,318	35,318	0
Carbon Dioxide Removal	38,100	38,100	0
Special Recruitment Programs	700	700	0
Import Export Authorization	2,367	2,367	0
Advanced Oil and Gas Prod Tech (Unconv FE)	858	858	0
Natural Gas Technologies Research	30,250	30,250	0
Program Direction - Fossil Energy Field	31,353	31,353	0
Naval Petroleum and Oil Shale Reserve	2,006	2,006	2,000
Strategic Petroleum Reserve (SPR)	8,430	8,430	7,930
Northeast Home Heating Oil Reserves	800	800	960
University Led Research & Development	0	0	133,029
University Scholarships and Fellowships	0	0	9
University Fuel Services (RRI)	0	0	20
Integrated University Program	0	9	0
STEP R&D	689	689	0
Advanced SMR R&D	1,762	1,762	1,000
LWR Sustainability	9,861	9,861	11,415
Advanced Reactor Technologies	15,995	15,995	14,000
Reactor Concepts RD&D	27,618	27,618	26,415
Mining, Conversion, and Transportation	1,100	2,000	1,500
Civilian Nuclear Enrichment	0	40,000	0
Materials Recovery and Waste Form Development	1,038	1,038	1,453
Accident Tolerant Fuels	15,153	15,153	15,133
Triso Fuel and Graphite Qualification	7,938	1,000	1,470
Fuel Cycle Laboratory R&D	2,260	2,260	5,166
HALEU Availability	0	0	3,274
Used Nuclear Fuel Disposition R&D	3,000	3,000	3,000
Integrated Waste Management System	2,800	2,800	11,800
Fuel Cycle Research & Development	33,289	67,251	42,796
Crosscutting Technology Development	6,019	6,019	6,000
Joint Modeling and Simulation Program	4,938	4,938	3,627
Nuclear Science User Facilities	3,112	3,112	4,000
Transformational Challenge Reactor	5,480	5,480	0
Nuclear Energy Enabling Technologies	19,549	19,549	13,627
National Reactor Innovation Center	723	723	0
Demonstration 1 (X-Energy)	2,712	2,712	0
Demonstration 2 (Natrium)	2,865	2,865	0
Risk Reduction for Future Demonstration	40,000	40,000	48,038
Mon Neudolion for Fatare Demonstration	40,000	40,000	40,030

DEPARTMENT OF ENERGY Laboratory Table Washington Headquarters FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Regulatory Development	1,153	1,153	0
Advanced Reactors Safeguards	245	245	500
Advanced Reactors Demonstration Program	47,698	47,698	48,538
Other Project Costs	65	65	65
Versatile Advanced Test Reactor R&D	65	65	65
ORNL Nuclear Facilities O&M	74	74	0
INL Facilities Operations and Maintenance	812	997	935
Research Reactor Infrastructure	20	20	0
Infrastructure	906	1,091	935
Idaho Sitewide Safeguards & Security (050)	50	125	125
International Nuclear Energy Cooperation	0	0	1,500
Program Direction - Nuclear Energy	40,901	40,901	45,790
Interim Storage	5,500	5,500	0
Oversight Activities Nuclear Waste Disposal	7,000	7,000	9,705
Office of the Secretary	5,582	5,582	6,642
Congressional & Intergovernmental Affairs	5,000	5,000	7,142
Office of the Chief Financial Officer	53,590	53,590	62,283
Economic Impact & Diversity	10,169	10,169	34,140
Office of International Affairs	26,825	26,825	62,141
Chief Information Officer	140,200	140,200	233,731
Other Departmental Administration	141,662	141,662	219,789
Strategic Partnership Projects	6,722	6,722	0
Strategic Partnership Projects and Revenues	6,722	6,722	0
Legacy Management Activities - Defense	35,151	35,151	51,930
Legacy Management	35,151	35,151	51,930
Program Direction - Office of Enterprise Assessments	54,635	54,635	57,941
	24,285		27,186
Enterprise Assessments Office of Enterprise Assessments	78,920	24,285 78,920	85,127
	72,000	72,000	76,685
Program Direction - Environment, Health, Safety and Security			
Environment, Health, Safety & Security	117,801	117,801	122,335
Environment, Health, Safety, and Security	189,801	189,801	199,020
Specialized Security Activities	283,500	283,500	306,067
Office Of Hearings And Appeals	4,262	4,262	4,477
Office of Technology Transitions (DA)	8,871	8,871	9,749
Indian Energy Policy & Programs	17,000	17,000	129,736
Program Direction - Indian Energy Program	5,000	5,000	20,303
ARPA-E Projects	392,000	392,000	643,000
Program Direction - ARPA-E	35,000	35,000	57,150
Energy Information Administration (EIA)	126,800	126,800	144,480
Loan Guarantee Program	31,457	31,277	65,483
Administrative Expenses - Tribal Energy Loan Guarantee Program	1,955	2,000	1,860
Advanced Technology Vehicle Manufacturing Loan Program	4,622	4,450	9,200
Program Direction - Defense Environmental Cleanup	85,595	85,595	89,647
Program Support - Defense Environmental Cleanup	12,979	12,979	103,239
Technology Development and Deployment	30,000	30,000	25,000
Management and Storage of Elemental Mercury	2,100	2,100	2,100
Uranium Enrichment D&D Fund-U Th Reimbursements	5,000	5,000	24,400
Program Direction - OCED	0	0	18,449
Clean Energy Demonstrations	0	0	164,052
Grid Planning & Development	0	0	3,200

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Grid Technical Assistance	0	0	3,400
Wholesale Electricity Market TA & Grants	0	0	700
Interregional & Offshore Transmission Planning	0	0	2,500
Program Direction - Grid Deployment Office	0	0	4,272
Program Direction - Office of Inspector General	57,739	57,739	106,808
Total Washington Headquarters	5,462,374	4,758,832	5,905,161

Laboratory Table
Waste Isolation Pilot Plant FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Waste Isolation Pilot Plant			
Material Disposition	7,595	6,240	11,932
Material Management and Minimization	7,595	6,240	11,932
Nonproliferation & Arms Control	355	355	450
Counterterrorism and Counterproliferation	3,117	12	508
Nuclear Counterterrorism & Incident Response	3,117	12	508
Waste Isolation Pilot Plant (WIPP)	313,260	313,260	371,943
21-D-401 Hoisting Capability Project	10,000	10,000	0
15-D-411 Safety Significant Confinement Ventilation System, WIPP	35,000	35,000	59,073
15-D-412 Exhaust Shaft, WIPP	55,000	55,000	25,000
Construction - Waste Isolation Pilot Plant	100,000	100,000	84,073
Total Waste Isolation Pilot Plant	413,260	413,260	456,016
Total Waste Isolation Pilot Plant	424,327	419,867	468,906

Laboratory Table
Weldon Spring Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Weldon Spring Site Office			
Legacy Management Activities - Defense	4,092	4,092	5,131
Legacy Management	4,092	4,092	5,131
Total Weldon Spring Site Office	4,092	4,092	5,131

Laboratory Table
West Valley Demonstration Project FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
West Valley Demonstration Project			
Safeguards and Security - Defense Environmental Cleanup	4,298	4,298	4,377
West Valley Demonstration Project - NDEC	88,113	88,113	89,882
Total West Valley Demonstration Project	92,411	92,411	94,259

DEPARTMENT OF ENERGY
Laboratory Table
Western Area Power Administration Office FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Western Area Power Administration Office			
Transmission Reliability and Resilience	15	0	0
Operation And Maintenance - CROM	77,874	77,874	85,229
Construction And Rehabilitation - CROM	26,251	26,251	47,189
Purchase Power And Wheeling - CROM	485,890	485,890	625,405
Program Direction - CROM	253,575	253,575	277,287
Construction, Rehabilitation, Operation, and Maintenance (CROM) - WP	843,590	843,590	1,035,110
Less alternative financing (for O&M) - CROM	-6,297	-6,297	-7,641
Less alternative financing (for Construction) - CROM	-20,353	-20,353	-38,219
Less alternative financing (for PPW) - CROM	-293,890	-293,890	-275,322
Less alternative financing (for PD) - CROM	-48,546	-48,546	-54,868
Less alternative financing - CROM	-369,086	-369,086	-376,050
Purchase Power & Wheeling Financed from Offsetting (P.L. 108-447/109-103)	-192,000	-192,000	-350,083
Offsetting Collections - Colorado River Dam (P.L. 98-381)	-8,378	-8,378	-9,404
Offsetting Collections (for O&M) - CROM	-24,744	-24,744	-29,180
Offsetting Collections (for PD) - CROM	-145,010	-145,010	-171,661
Offsetting Collections - CROM	-370,132	-370,132	-560,328
Falcon And Amistad Operation And Maintenance	7,302	7,545	7,928
Offsetting Collections - Falcon and Amistad Fund	-5,548	-5,580	-6,102
Less alternative financing - Falcon and Amistad Fund	-1,526	-1,737	-1,598
Program Direction - Colorado River Basins Fund	70,316	74,581	79,539
Equipment, Contracts and Related Expenses - Colorado River Basins Fund	174,731	162,709	178,927
Colorado River Basins Fund	245,047	237,290	258,466
Offsetting collections - CRBPMF	-266,447	-258,690	-267,034
Use of Prior Year Balances	-15,000	-15,000	0
Total Western Area Power Administration Office	68,215	68,200	90,392

DEPARTMENT OF ENERGY
Laboratory Table
Y-12 National Security Complex FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Y-12 National Security Complex			
B61-12 LEP	94,500	87,000	109,000
W88 ALT 370	490	1,344	1,261
W80-4 LEP	3,306	33,650	37,660
W87-1 Modification Program	40,000	43,006	82,502
W93 Program	1,000	1,000	5,000
Stockpile Major Modernization	139,296	166,000	235,423
Stockpile Sustainment	38,705	41,224	47,049
Weapons Dismantlement and Disposition	14,450	17,569	15,667
Production Operations	108,754	106,228	107,151
Nuclear Enterprise Assurance	0	0	2,760
Stockpile Management	301,205	331,021	408,050
Uranium Modernization	259,163	299,279	219,535
Depleted Uranium Modernization	68,064	91,964	111,000
Lithium Modernization	35,268	37,850	62,073
18-D-690, Lithium Processing Facility, Y-12	109,405	109,405	216,886
06-D-141, Uranium Processing Facility, Y-12	720,000	734,000	351,000
Secondary Capability Modernization	1,191,900	1,272,498	960,494
Tritium Sustainment and Modernization	1,667	0	1,750
Domestic Uranium Enrichment	0	0	10,000
HEU Downblend	15,512	10,000	0
Tritium and Domestic Uranium Enrichment	17,179	10,000	11,750
Non-Nuclear Capability Modernization	0	300	310
Total, Non-Nuclear Capability Modernization	0	300	310
Capability Based Investments	27,170	28,250	18,200
Production Modernization	1,236,249	1,311,048	990,754
Aging and Lifetimes	2,414	2,590	2,600
Stockpile Responsiveness	2,325	3,625	3,459
Advanced Certification and Qualification	1,500	1,400	1,330
Engineering and Integrated Assessments	6,239	7,615	7,389
Advanced Manufacturing Development	14,498	6,876	3,000
Weapons Technology and Manufacturing Maturation	14,498	6,876	3,000
Advanced Simulation and Computing	500	500	1,000
Advanced Simulation & Computing	500	500	1,000
Stockpile Research, Technology, and Engineering	21,237	14,991	11,389
Operations of Facilities	102,864	103,000	104,000
Safety and Environmental Operations	24,147	25,906	22,691
Maintenance and Repair of Facilities	122,142	117,000	119,000
Infrastructure and Safety	69,399	46,857	42,891
Recapitalization	69,399	46,857	42,891
Operating	318,552	292,763	288,582
23-D-519, Special Material Facility, Y-12	0	0	49,500
Mission Enabling Construction	0	0	49,500
I&O - Construction	0	0	49,500
Infrastructure and Operations	318,552	292,763	338,082
Operations and Maintenance - DNS	173,820	173,820	199,685
17-D-710, West End Protected Area Reduction Project, Y-12	26,000	26,000	3,928
Construction - Defense Nuclear Security	26,000	26,000	3,928
Defense Nuclear Security (DNS)	199,820	199,820	203,613

DEPARTMENT OF ENERGY
Laboratory Table
Y-12 National Security Complex FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Information Technology and Cyber Security	9,384	8,845	9,803
Conversion	2,256	4,310	3,070
Nuclear Material Removal	3,350	3,300	3,875
Material Disposition	14,563	6,300	25,025
Laboratory and Partnership Support	620	0	0
Material Management and Minimization	20,789	13,910	31,970
International Nuclear Security	1,954	3,770	2,009
Radiological Security	7,204	12,332	6,414
Nuclear Smuggling Detection and Deterrence	30	1,000	31
Global Material Security	9,188	17,102	8,454
Nonproliferation & Arms Control	4,780	4,780	6,061
Proliferation Detection R&D	1,285	1,660	1,446
Forensics R&D	952	1,146	951
Nonproliferation Stewardship Program	300	1,075	6,284
Defense Nuclear Nonproliferation R&D	2,537	3,881	8,681
Counterterrorism and Counterproliferation	40	3,690	5,192
Nuclear Counterterrorism & Incident Response	40	3,690	5,192
Total Y-12 National Security Complex	2,123,781	2,201,851	2,022,049

Laboratory Table
Y-12 Site Office FY 2023
(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
Y-12 Site Office			
Environment, Health, Safety & Security	20	20	20
Environment, Health, Safety, and Security	20	20	20
OR Technology Development and Deployment	5,000	5,000	3,000
14-D-403 Outfall 200 Mercury Treatment Facility	20,500	20,500	0
17-D-401 On-site Waste Disposal Facility	22,380	22,380	35,000
Construction - Oak Ridge	42,880	42,880	35,000
Oak Ridge (OR)	47,880	47,880	38,000
Total Y-12 Site Office	47,900	47,900	38,020

DEPARTMENT OF ENERGY Laboratory Table Grants FY 2023 (Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Grants			
Research - Advanced Scientific Computing Research	18,097	120,394	235,650
Advanced Scientific Computing Research	18,097	120,394	235,650
Research - Basic Energy Sciences	500	370,673	418,080
Basic Energy Sciences	500	370,673	418,080
Research - Biological & Environmental Research	112,395	142,044	219,127
Biological and Environmental Research	112,395	142,044	219,127
Research - Fusion Energy Sciences	87,028	285,483	312,786
Fusion Energy Sciences	87,028	285,483	312,786
Research - High Energy Physics	112,670	184,123	198,969
High Energy Physics	112,670	184,123	198,969
Operations and Maintenance - Nuclear Physics	0	163,099	211,273
14-SC-50, Facility for Rare Isotope Beams, MSU	5,300	0	0
Construction - Nuclear Physics	5,300	0	0
Nuclear Physics	5,300	163,099	211,273
Research - Accelerator R&D and Production	0	6,123	13,271
Accelerator R&D and Production	0	6,123	13,271
Weatherization Assistance Program (EERE)	283,375	283,375	0
State Energy Program Grants (EERE)	56,000	56,000	0
Weatherization and Intergovernmental Programs	339,375	339,375	0
Energy Efficiency	339,375	339,375	0
Transmission Reliability and Resilience	1,494	1,494	3,155
Energy Delivery Grid Operations Technology	0	0	180
Resilient Distribution Systems	3,002	2,714	4,300
Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	10,230
Energy Storage R&D	1,751	809	19,575
20-OE-100 Grid Storage Launchpad	32	0	0
Construction - Energy Storage	32	0	0
Energy Storage	1,783	809	19,575
Transformer Resilience and Advanced Components	197	194	2,060
Applied Grid Transformation Solutions	0	0	15,000
Transmission Permitting and Technical Assistance	1,313	3,100	0
Program Direction - Electricity	2,600	0	2,543
Northeast Home Heating Oil Reserves	5,700	5,700	6,040
Clean Energy Demonstrations	0	0	25,000
Program Direction - FEMP	0	0	14,511
Grid Technical Assistance	0	0	18,600
Wholesale Electricity Market TA & Grants	0	0	14,000
Interregional & Offshore Transmission Planning	0	0	15,000
Program Direction - Grid Deployment Office	0	0	798
Program Direction - MESC	0	0	6,424
Program Direction - SCEP	0	0	24,727
Total Grants	691,454	1,625,325	1,791,299

Laboratory Table
No LPI FY 2023
(Dollars in Thousands)

	EV 2004	FV 0000	EV 0000
	FY 2021 Enacted	FY 2022 Annualized CR	FY 2023 Request Detail
No LPI	Lilacieu	ATTITUDITE OIL	Noquest Detail
Transmission Reliability and Resilience	26	46,438	0
Resilient Distribution Systems	300	45,812	300
Cyber Resilient & Secure Utility Communication Network (SecureNet)	0	0	270
Energy Storage R&D	18	55,904	125
Energy Storage	18	55,904	125
Transformer Resilience and Advanced Components	383	7,078	740
Applied Grid Transformation Solutions	0	0	15,000
DCEI Energy Mission Assurance	500	500	0
Transmission Permitting and Technical Assistance	128	2,818	0
Carbon Capture	0	0	163,000
Carbon Utilization	0	0	50,000
Carbon Storage	0	0	122,000
CCS and Power Systems	0	0	335,000
Advanced Energy Systems	0	0	66,869
Cross Cutting Research	0	0	31,000
Advanced Coal Energy Systems & CCUS	0	0	97,869
Mineral Sustainability	0	0	44,000
Carbon Dioxide Removal	0	0	65,000
Special Recruitment Programs	0	0	1,000
NETL Research and Operations - Fossil Energy	0	0	83,000
NETL Interagency Working Group	0	0	3,000
NETL Infrastructure - Fossil Energy	0	0	55,000
Program Direction - Fossil Energy Field	0	0	70,291
Resource Technologies and Sustainability	0	0	139,000
Artificial Intelligence and Technology Office	2,500	2,500	2,608
Miscellaneous Revenues	-93,378	-93,378	-100,578
Strategic Partnership Projects and Revenues	-93,378	-93,378	-100,578
	20,262		21,983
Program Direction - Legacy Management Legacy Management		20,262	
	20,262 5,000	20,262 5,000	21,983 0
Office of Technology Transitions (DA)	5,000	0	
Technology Transitions Program Office	0	0	8,375
Title XVII Loan Guarantee Credit Subsidy			150,000
Offsetting Collections - Title 17 Innovative Technology Loan Guarantee Program	-3,000	-3,000 0	-48,000
Federal Contribution to the Uranium Enrichment D&D Fund Small Sites - NDEC	0	10,000	417,000 0
	0	0	3,000
Mercury Receipts	0	0	-3,000
Use of Mercury Receipts	0	0	
Federal Energy Management Program Federal Energy Efficiency Fund	0	0	38,150 60,000
,	0	0	
Net Zero Lab Initiative Program Facility and Workforce Assistance	0	0	57,000
•	0		18,000
Energy Sector Industrial Base		0	3,000
Weatherization Assistance Program (SCEP)	0	0	502,170
State Energy Program Grants (SCEP)		0	70,000
Energy Future Grants (SCEP)	0	0	105,000
Community Programs	0	0	25,000
Purchase Power and Wheeling - SEPA	66,163	66,353	92,687
Program Direction - SEPA	11,246	7,284	8,273

Laboratory Table
No LPI FY 2023
(Dollars in Thousands)

	FY 2021	FY 2022	FY 2023
	Enacted	Annualized CR	Request Detail
Offsetting collections (for PD) - SEPA	-7,246	-7,184	-8,173
Offsetting collections (for PPW) - SEPA	-52,000	-53,000	-78,696
Offsetting Collections - SEPA	-59,246	-60,184	-86,869
Less alternative financing (for PD) - SEPA	-4,000	-100	-100
Less alternative financing (for PPW) - SEPA	-14,163	-13,353	-13,991
Less alternative financing - SEPA	-18,163	-13,453	-14,091
Offsetting Collections (for O&M) - SWPA	-5,657	-5,657	-7,998
Offsetting Collections (for PD) - SWPA	-31,483	-31,483	-34,882
Offsetting Collections (for PPW) - SWPA	-34,000	-34,000	-70,000
Offsetting Collections - SWPA	-71,140	-71,140	-112,880
Less alternative financing (for O&M) - SWPA	-5,635	-5,635	-5,279
Less alternative financing (for Construction) - SWPA	-8,167	-8,167	-11,035
Less alternative financing (for PPW) - SWPA	-20,000	-20,000	-23,000
Less alternative financing (for PD) - SWPA	-852	-852	0
Less alternative financing - SWPA	-34,654	-34,654	-39,314
Total No LPI	-173,055	-5,860	2,087,109