

TABLE A.2.3–2.—Livermore Site Deactivation, Decommissioning, and Demolition Projects

Facility Number	Facility Name	Square Feet	Waste Generation (LLW, MLLW, transuranic, solid sanitary waste, etc.) ^j (ton)
No Action Alternative			
222C	Chemistry Laboratory	22,000	NA ⁱ
222N	Chemistry Laboratory	22,000	NA ⁱ
232	Vacant	2,030	1.015
280	RHWM Waste TSDF	5,343	2.6715 ^d
328A	Vacant	720	NA ⁱ
412	Vacant	28,607	14.3035 ^a
431	Accelerator Research Center	100,000	50
513	RHWM Liquid Waste TSDF	3,500	1.75 ^b
514	RHWM Liquid Waste TSDF	2,484	1.242 ^c
1477	Offices	10,749	5.3745
1478	Vacant	9,929	NA ⁱ
2626	Offices	1,591	NA ⁱ
2629	Offices	6,377	NA ⁱ
2633	Offices	1,595	0.7975
3903	Optical Glass Storage	2,130	NA ⁱ
3904	E Tech. Support	2,130	1.065
3905	Test Lab/Drafting	2,130	1.065
4181	Offices	3,692	1.846
4440	Offices	5,276	2.638
5928	Offices	2,160	1.08
Proposed Action includes all the projects under No Action Alternative and the following additional projects			
162	Research/Crystal Growth	19,398	9.699 ^e
165	Optics/ Development Lab	9,712	4.856
166	Development Lab	14,628	7.314
169	Vacant	903	0.4515
171	Development Lab	8,632	4.316
182	Neutrino Mass Experiment	1,958	0.979
173	Welding Shop	413	0.2065
175	North Section	11,452	5.726
194	Line of Flight Tube	5,000	2.5
195	EPD/ORAD Shop	400	0.2
196	EPD/ORAD SVRC Monitor Station	853	0.4265
196A	EPD/ORAD Storage	112	0.056
198	Physics	966	0.483
212	Physics Lab/Vacant	1,800	0.9 ^f
221	Computation	1,764	0.882

TABLE A.2.3–2.—Livermore Site Deactivation, Decommissioning, and Demolition Projects (continued)

Facility Number	Facility Name	Square Feet	Waste Generation (LLW, MLLW, transuranic, solid sanitary waste, etc.) ^j (ton)
230	231 Portal	377	0.1885
251	Heavy Element Facility	31,809	15.9045 ^g
251 2 nd	Heavy Element Facility year	359	0.1795
325U	LCW Control	3,500	1.75
328B	Duct and Filter Storage	288	0.144
328	Hazards Control Fire Test	372	0.186
336	South Security Portal	792	0.396
382	Tech Support	292	0.146
419	RHWM Indtrl	7,687	3.8435 ^h
436	Energy Research	9,693	4.8465
442	RHWM Shop/Corp	4,098	2.049
443	Storage	8,981	4.4905
444	Tel. Equip. Storage	805	0.4025
639	Storage	448	0.224
651	Visitor Center	2,390	1.195
652	Telescope Building	253	0.1265
1253	Vacant	1,080	0.54
1401	Offices	5,113	2.5565
1402	Offices	5,113	2.5565
1403	Offices	5,113	2.5565
1404	Offices	5,226	2.613
1405	Offices	5,113	2.5565
1406	Office/Computer Areas	5,200	2.6
1407	Restroom Trailer	520	0.26
1408	Vending Machine Trailer	184	0.092
1413	Offices	1,040	0.52
1456	Offices	4,914	2.457
1481	Electronics Engineering	5,275	2.6375
1526	Offices	1,380	0.69
1601	Offices	2,228	1.114
1602	Vacant	2,217	1.1085
1631	Vacant	1,490	0.745
1714	Restroom/Shower Trailer	270	0.135
1730	Offices	2,100	1.05
1826	Document Archival Storage	3,590	1.795
1830	Offices	6,470	3.235
1877	Vacant	5,770	NA ⁱ
1925	Offices	2,176	1.088
1927	Offices	2,160	1.08

TABLE A.2.3–2.—Livermore Site Deactivation, Decommissioning, and Demolition Projects (continued)

Facility Number	Facility Name	Square Feet	Waste Generation (LLW, MLLW, transuranic, solid sanitary waste, etc.)^j (ton)
2425	Offices	2,704	1.352
2428	Offices	4,179	2.0895
2512	Offices	359	0.1795
2526	Offices	1,549	0.7745
2529	Offices	1,040	0.52
2530	Offices	1,595	0.7975
2684	Offices	5,284	2.642
2685	Offices	4,320	2.16
2687	Offices	2,100	1.05
2701	Shower Trailer	720	0.36
2775	Offices	9,831	4.9155
2787	Exercise Trailer	2,160	1.08
2801	Vacant	2,130	1.065
2802	Vacant	2,130	1.065
2804	Offices	720	0.36
2807	Offices	600	0.3
2808	Restroom Facility	238	0.119
2825	Offices	5,922	2.961
3175	Offices	1,612	0.806
3203	Materials Fabrication	632	0.316
3204	Offices	647	0.3235
3340	Offices	2,160	1.08
3502	Offices	684	0.342
3550	Offices	684	0.342
3629	Offices	2,160	1.08
3703	Offices	10,068	5.034
3751	Offices	2,240	1.12
3775	Offices	1,386	0.693
3777	Offices	6,390	3.195
3907	E Tech. Support	1,855	0.9275
3982	Offices	1,920	0.96
4104	Restroom Facility	291	0.1455
4107	Science & Tech. Education	382	0.191
4128	Offices	960	0.48
4161	Computation	1,229	0.6145
4177	Offices	1,577	0.7885
4180	Offices	3,120	1.56
4182	Offices	2,799	0

TABLE A.2.3–2.—Livermore Site Deactivation, Decommissioning, and Demolition Projects (continued)

Facility Number	Facility Name	Square Feet	Waste Generation (LLW, MLLW, transuranic, solid sanitary waste, etc.)^j (ton)
4184	Offices	3,799	1.8995
4302	Offices	5022	2.511
4316	Offices	299	0.1495
4325	Offices	2,130	1.065
4377	Offices/Computer Space	4,920	2.46
4378	Offices	5,180	2.59
4383	Offices/Computer Space	5,003	2.5015
4384	Offices	1,577	0.7885
4385	Offices	3,744	1.872
4387	Offices	3,658	1.829
4388	Restroom Facility	320	0.16
4406	Control Room	1,560	0.78
4442	Offices	5,760	2.88
4905	Offices	322	0.161
4906	Offices	322	0.161
4926	Offices	1,638	0.819
5104	Industrial Gas Facility	624	0.312
5105	Lunchroom	510	0.255
5125	Office Areas	2,912	1.456
5207	Freon Storage	320	0.16
5225	Offices	1,960	0.98
5226	Offices	2,548	1.274
5627	Offices	8,415	4.2075
5801	Vacant		0
5925	Tech. Office/Work Space	2,100	1.05
5926	Tech. Office/Work Space	2,128	1.064
5975	Offices	6,480	3.24
5976	Computer Support	6,209	3.1045
5977	Offices	6,340	3.17
5978	Offices	6,480	3.24
5979	Offices	5,680	2.84
5980	Offices	5,680	2.84
5981	Offices	5,744	2.872
5982	Offices	5,742	2.871
5983	Offices	5,680	2.84
5984	Offices	5,680	2.84
5985	Offices	5,680	2.84
6203	Offices	2,181	1.0905
6501	Offices	875	0.4375

TABLE A.2.3–2.—Livermore Site Deactivation, Decommissioning, and Demolition Projects (continued)

Facility Number	Facility Name	Square Feet	Waste Generation (LLW, MLLW, transuranic, solid sanitary waste, etc.) ^j (ton)
6525	Visitor Center Auditorium	960	0.48
6526	Offices	2,513	1.2565
6527	Offices	2,100	1.05
6575	Offices	1,407	0.7035

Source: DOE 2003b.

^a Building 412 D&D generated wastes includes 8 tons LLW, 2 tons hazardous waste, and 4.5 tons industrial waste.

^b Building 513 D&D generated wastes includes 0.75 ton LLW, 0.5 ton hazardous waste, and 1.5 tons industrial waste.

^c Building 514 D&D generated waste includes 0.5 ton LLW, 0.5 ton hazardous waste, and 1.5 tons industrial waste.

^d Building 280 D&D generated waste includes 2 tons LLW, 0.25 ton hazardous waste, and 0.42 ton industrial waste.

^e Building 162 D&D generated waste includes 1 ton LLW, 1 ton hazardous waste, and 8 tons industrial waste.

^f Building 212 D&D generated waste includes 2 tons LLW, 2 tons hazardous waste, and 5 tons industrial waste.

^g Building 251 D&D generated waste includes 10 tons LLW, 2 tons transuranic, 2 tons hazardous waste, and 1 ton industrial waste.

^h Building 419 D&D generated waste includes 1 ton LLW, 1 ton hazardous waste, and 2 tons industrial waste.

ⁱ Not available. Data will be in separate NEPA documentation for the Facility

^j In addition to Facility, D&D projects, routine deactivation of laboratories and equipment would generate 5 tons/year solid hazardous waste, 2 tons/year mixed waste and 10 tons/year of LLW.

D&D = decontamination and decommissioning; EPD = Environmental Protection Department; LLW = low-level waste; MLLW = mixed low-level waste; NEPA = *National Environmental Policy Act*; ORAD = Operations and Regulatory Affairs Division; RHWM = radioactive and hazardous waste management; TSDF = treatment, storage, and disposal facility.

A.2.3.1 National Ignition Facility

The NIF conventional facilities construction is complete. Completion of the systems leading to full operation in fiscal year (FY) 2008 is in progress. In operation, the NIF would perform fusion ignition, high energy density, and radiation effects experiments in support of stewardship of the Nation's stockpile of nuclear weapons and fusion energy and applied sciences objectives. The LTAB, Building 581, the main experimental building of the NIF, is where laser-driven experiments would be conducted. The LTAB consists of two laser bays, two optical switchyards, a target bay, target diagnostics areas, capacitor bays, mechanical equipment areas, control rooms, and operational support areas. The LTAB would provide an optically stable and clean environment and provide sufficient shielding against prompt radiation and residual radioactivity. A 192-beam, neodymium glass laser would be housed in the LTAB. The laser would deliver laser light to small fusion targets mounted in a vacuum chamber. The NIF is also described in Section A.2.2.52.

A.2.3.2 BioSafety Level 3 Facility

The BSL-3 Facility, Building 368, would be a 1,500-gross-square-foot laboratory and office complex located in the Building 360 Complex area. The facility is designed to accommodate work on detection and counter-terrorism technologies, and would be used for environmentally safe and physically secure manipulation and storage of infectious microorganisms. The facility would have the unique capability within NNSA to perform aerosol studies to include infectious agents or biologically derived toxins. The facility would more effectively use and capitalize on LLNL's existing onsite facilities, expertise, and capabilities and would also ensure the necessary